مدونة المناهج السعودية

https://eduschool40.blog

الموقع التعليمي لجميع المراحل الدراسية

في المملكة العربية السعودية

Ch5

Choose

1- its mean language which is easier for human to understand as closer to human communicate

 a- **high level language**   b- machine language

2- Language of computer it is machine language depend on binary system

 a- high level language   **b- machine language**

3- third most used programming language in the word java 0.74 declined and c/c++

 a- python   **b- java**   **c- high level language**

4- its group of function that someone has written allowing user to------------ perform different operation rebated to particular area image – processing or statistical data type analysis

 a- library   b- Language of computer

5- ------------ include many function like standard deviation median – lowest common multiple

a- library   b- Language of computer

6- Reason for making a library instead of sharing its source code is that the library ----------------------

a- file is un editable   b- sharing source

7- Library include many function like_____,

a- standard deviation median

b- lowest common multiple

c- all

8- Python is open source software its mean

a- it is continuously being modified and upgraded by the community

b- its owner the company

9- If python version 3 not compatible with version 2   its mean libraries or function developer using older version may not be usable in the current version (/)

10- Python interpreter on computer and Base on web based interface

a- Down load python

b- Up great python

c- Delete python

11- Advantage of --------------- is gives you acess and control over python installation Path and its libraries which is required by advanced users

a- Python interpreter on computer

b- Base on web based interface

12- Hassle free but does not allow manipulation or control over python libraries and Path and environment as beginner

a- Python interpreter on computer

b- Base on web based interface

13- installing through web browser based interface 3

1- Codingground:-

2- Online GDB

3- **repl.it**

4- **all**

14-Advantage of ---------- that it allows access to python libraries (package)for use in program

1- Codingground:-

2- Online GDB

3- **repl.it**

4- **all**

15-   The same program that was written and executed using the Coding ground Interface is written and tested using ----------

a- <u>Coding ground:-</u>

b- <u>Online GDB</u>

c- **repl.it**

d- **all**

16-   **Advantage its proved <mark>debugging</mark> option that are not provides by codingground**

17-   Codingground:-

18-   <u>Online GDB</u>

19-   **repl.it**

20-   **all**

18- data type consist

1- string

2- integers

3- float

4- boolen

5- <u>all</u>

19-it use for text   and must but between " " its define text like" hello "

a- <u>string</u>

b- integer

c- float

d- boolen

1- when print it which is not correct   chef'sfries

a- Specialtoday= 'chef''sfries'

b- Specialtoday= 'chef'sfries'

c- Specialtoday= "chef'sfries"

2- Its not friction -------------------- like day data or year We write in python my first value = 2

a- string

b- integer

c- float

d- boolen

20- It have friction part it can save as data type ------------------

a- string

b- integer

c- float

d- boolen

21------------------ name can be 1- uppercase   2- lower case letter 3- _

My be contane upper and Lower case

a- Varuable

b- Value

c- Float

22- Varuable can   be begin in number   (X)

23-Varuable use distance between two word   (X)

24-Varuable use _ between two word   (/)

25-We can't use word <u>return</u> as variable because it is key word (/)

26-Testquote= '"action speak louder than word"' the out put is

   a- <u>Out put "action speak louder than word"</u>

   b- Out put action speak louder than word

   c- Out put 'action speak louder than word'

27-welcome = a +"+"+ b if a= "hi "   b = "ali" Print (welcome) the out put is

   a- <u>hi +ali</u>

   b- hi ali

   c- hi   ali

28-:- variable name can be

   1- uppercase 2- lower case letter 3- _My be contane upper and Lower case like my wight =745.32

29 - Some time we want to keep multiple entries of the <mark>same or different dataType together Same data type entries being saved together its</mark> :-
1- <u>List</u>   2- string   3- integer 4 – boolen

30-The collection of value in a list are ordered Each value are enclosed inside brackets[]

   1- <u>List</u>   2- string   3- integer 4 – boolen

31-<u>Big burger sales =[20,25,30,15,21,40,41]</u>

32-<u>Print(Big _burger_ sales)=</u>

  a- 20,25,30,15,21,40,41

b- [20,25,30,15,21,40,41]

c- [3]

33- Print(Big _burger_ sales[2])

a- **30**

b- 25

c- "30"

34- Print(Big _burger_ sales[2:5])

a- [30,15,21]

b- 25,30,15,

c- 15,21,40

35- mean the position in the list if you want to point the value 30 we shallprovied its ------------ 2

a- **Index**

b- Position

c- Place

_____

36- If there 7 value so index is

a- from 0 to 7

b- **from 0 to 6**

c- from 1 to 7

_____

37- Advantage of list is can be used to save the data of more than one customer this can save data one after other

a- Index

b- 2 dimention data

c- 1 dimention data

Index row\index column	0	1	2	3	4
0	'1'	'9'	1421	True	
1	'2'	'7'	1426	false	

List dob eatin =[['1','9',1421,True],['2','7',1426,False]]

38- Print (list dob eatin[0])

a- =['1','9',1421,True]

b- ['2','7',1426,False]]

39- Print (list dob eatin[1])

a- ['1','9',1421,True]

b- ['2','7',1426,False]

40- Print (list _dob _eatin[0][1]) حل هذا السوال خطاء في الكتاب

a- '9'

b- 1421

c- 1426

41- Print (list _dob _eatin[1][3])

a- True

b- False

c- 1421

11 - its has apair of the word Arabic or English word Translation python --------------is comprised of key and value pairs and all pair sprated by comma can refrance it defends by {}

a- Dictionary

b- List

c- Array

a={'day' :1, 'month':9, 'year':1421,'eatin': True}

Print (a['day'])
Print (a['year'])
Print (a['eatin'])

12- <u>Print (a)</u>

   a- <u>**1/9/1421 t**</u>

   b- **1**

   c- **1421**

13- <u>Print (a['day'])</u>

   a- <u>**1**</u>

   b- **1421**

   c- **Error**

14- Print (<u>a['eatin']</u>)

   a- 1

   b- **1421**

   c- **True**

21-

      _____ Another possibility is that we want to run the FOR loop for all values except for a few of them.

   a- CONTINUE STATEMENT

   b- **b- break**

   c- _____ statement to stop and exit from the FOR loop

   CONTINUE STATEMENT

   d- **b- break**

22- _____

<u>**a= 20**</u>

<u>**f=['1','9',1421,true]**</u>

<u>**g={'day':1,'month':9,'year':1421,'eatin ': t}**</u>

15- **print(type f[0])**

a)< class(str)>   **b- <class(int)>**   **c <class(boo)>**

16- **print(type (a))**

a)< class(str)>   **b- <class(int)>**   c <class(boo)>

17- print(type f [3])

a)< class(str)>   b- <class(int)>   **c <class(boo)>**

18 - print(type (g))

a)   a<class(dict)>   b)< class(str)>   c- <class(int)>

Change data type (casting data type)

18- write ('total=' +total) its return type error   (/)

19- total convert to string using str commend print ('total='+str(total))
   Or print ('total=',total)   (/)

1- the good in python assign multiple variable at same time
        "**a**,b=**a+b**,a*b"   (/)

20- Simultaneously it call **Fibonacci series** (/   )

21- Integer equivalent text be type case into integer date type for example

Var value	Source code	output	
I= 7.5	Int(i) Print (i)	Value error	(X)

I='7'	Int(i)	7	Integer equivalent text be type case into integer date type

22- Print("hi'no ")   out is ---hi'no---------------(/)---------------

23- Print ("5"+"7")---57--------------------------------(/)---------

24- Print(5+7)-------12-----------------------------   (/)----------------

25- Print("ali"+"mostafa")-----ali   mostafa---- (X)-----------------------

26- print("ali"+"+"+"mostafa") out   ali+mostafa-(/)----------------------------

27- A=2 B=8   print(A+B)   8   (/)

28- Print("ali "+a)--- ---(X)-

29-   Arithmetic operator

a- Add+   a=2   b=3   c= a+b   output 6   (X)

b- Sub traction -   a= 10 b= 6 c= a-b   4   (/)

c- Multiplication * a=3   b= 4 c=a*b   7   (X)

d- Divation   a= 12   b=3   c=a/b 4   (/)

30- If string   used combines the string together into single string it concatenates them   (/)

31- If div a= 10 / b=20 ,1   python will but result in

a- float
b- integer
c- error

32- modulus"%"   a= 20   b= 10   c= a%b   print (c)

   a- 0
   b- 2

33- exponent "**" x^y x= 2   y=3

   a- 8
   b- 9

34- floor divistion"//" division left side by right side of operator and round the result to lower value   (/)

35- :- a= 3.2 b=1.5   c=a//b

   a- 2
   b- 2.3

c- 3

36- a= 7.8   b=-2   c=a//b   print (c)

   a- **-4**

   b- -3

37- **it** used for compering two number   if great then or less then or equal

a- **comparision operation**

b- Arithmetic operators

38- **9//3--------3---------------------------(/)**

39- **9%3---------0----------------------------(/)**

40- **9/3---------3----------------------------(/)**

41- a=10   b=20 if   a>== b: f   (/)

42- a= 3.2   b = 3.2   if a>=b: f   (X)

43- a=4   b=4   if a !=b   T   (X)

44- it   assignment operator the operand on the right is being to valuable on the left

   a- comparision operation

   b- Arithmetic operators

   c- **Assignment operation**

45- a= 20   b= 3   c= a+b

   a- 30

   b- **23**

46-   a= 20 b= 10   a+ = b

   a- **30**

   b- 33

47-a*=b   a=2 b=4
   a- 6
   b- 8

48-Logical operator   which is not
a- AND
b- OR
c- XOR
d- IF

49-   a= 20   b= 5   if(a==20)and (b==10):
A- T
B- F

39 A=20 B=10 IF (A==20)OR (B==5):
      a- T
      b- F

A= 20   b= 10   If not ((A==20)or (b==5)):

a- T
b- F

40----------------:- its one way to write acode that will check every element to see if it match the desired value   python provide easy way check if element is member of list or not

a- OR
b- Membership operators

41- Return true value if the desired value exist s in the list other return f

a- In
b- On

   c- **Not in**

42- **A= 20**

B=[5,10,25,'20'17,19,45]

C='20' A in b

  a- T
  b- F

43- C in b

  a- T
  b- F

44- **A= 20**

B=[5,10,25,17,19,45] A not inb

  a- **T**
  b- **F**

45- What will be display program ?

My_value= 99

My_value= 0

 64- Print(my_value)-----------------0---- هنا يطبع اخر قيمه---------------------

65- Print ("my value")----my value-----------(/)----------------------

66- How can print

  1- "cat "nono   code is
  2- '"cat "nono '
  3-   "cat "nono   "

4- Van'vom   code is   "van,vom" (/)

67- how display print(format(123456,'10,d)) 123.456 فى هذا الامر يقوم بوضع الفاصله فى المنتصف

68- amont =72   (/)

69 (amont =72)   لايوضع بين اقواس(X)

69- hi   be=8   خطاء لوجود مسافه (X)

70- 44b=7   خطاء لوجود رقم فى البدايه (X)

71- print (123456,'10d)---12346---------------- يكتب الرقم هنا صحيح بدون فاصله -----------
----

72- print (65.4321,'3f)--- 65.432------------------------ معناها وجود تلات ارقام بعد الفاصله

73-

Program	Out put
Number1 =int(input("value:")) Number2 =int(input("value:")) Number3 =int(input("value:")) Sum= Number1+ Number2+ Number3 Ave=sum/3 Print("sum is",sum) Print("average is ", ave) Num 1 =2 num2 =3 num3 = 6	11/3

	2 max

```
main.py     🗎   ⟳ saved
1   v1=input("value1:")
2   v2=input("value2:")
3   if(v1>v2):
4       max=v1
5   else :
6           max=v2
7   print('largest value  is', max)
8
```

if v1=2 v2=1

	2 +

```
main.py     🗎   ⟳ saved
1   number = int(input("value1:"))
2   if(number>0):
3     print('number',number,'postive')
4
5   elif(number<0):
6     print('number',number,'negative')
7   else:
8     print('number',number,'zero')
9
10
11
```

Number = 2

write the program python

```
or i in range(1,11):
 product= 2*i
 if (product%5==0):
  continue
 else:

  print('2x',i,'=',product)
```

	طباعه الاعداد التى تقبل على 5
| ```
for i in range(1,51):
  if(i%5==0):
    print(i)
x=i
print (x)
``` | Print  number div by 5  to   50<br>Print  number from 1 to 51 |
| ```
for i in range(1,51):
  if(i%5==0):
    print(i)
    if(i==25):
      break
``` | Print used break  when number = 25(/) |
| i=0 | -0-1-2-3-4-5-6-7-8-9 |

while(i<10) print(i) i+=1	1-2-3-4-5-6-7-8-9-10

80- **Have sequence of event number from -50 to 0 (-50,1,2)**

a- **(-50,1,2)**   b- **(50,1,3)**

81- **Have sequence of event number from 1 to 100   (2,101,2)**

a- **(1,101)**   b- **(100,1)   c**

82- **Have sequence of number from 52, to 61**

a- **(52,62)**   b- **(52,60)**

83- **Have sequence of event number from 0 to -50**

a- **(0,-51,-2)**

b- **(0,51)**

84- **Have sequence of even number from 1 to 100**

a- **(2,101,2)**   b- **(2,101)**

85- **Have sequence of number from 1 to 100 div by 5   (5,101,5)**

a- **(5,101,5)**   b- **(5,101)**

86- a='hello'   -

b='mohamed'

 Print(a+','+b) ------- ------------------------------------

A- hello ,mohamed

B- HELLO MOHAMED

87- Print (a,b)

a- hello Mohamed
b- hello ,Mohamed
c- HELLO MOHAMED

88- Print (a,\n,b)----------------

a- hello

   Mohamed

b- hello Mohamed
c- hello ,Mohamed
d- HELLO MOHAMED

89- a= 4.5 print (int(a))

a- 4_____ b- 4.5   c- error

90- a=5 print (float(a))

a- 5   **b- 5.0**

91-   statement   to find type of varuable

1- Print (type (b))
2- Input ('enter type ')

92- - statement to input value

1- Print (type (b))
2- Input ('enter type ')

91- a=5   b=3   n= a*b   d= a-b   the simultaneous assignment is

a- **n,d=a*b,a-b**

b- error

93- n1=5   n2= 3

Print(n1==n2)

   a- f
   b- T

94- M1=2   M2=5

Print(m1>m2)

   a- T
   b- F

95- print (m1!=m2)

 a- T
 b- F

96- v= 7

Print(v<=7)

   A- T
   B- F

97- n1= 10   n2= 4

Print((n1>n2)and(n1<10))

a-T

 c- F

98- n1= 10   n2= 4

Print((n1>n2)or (n1<10) t

99- n= 3

Print(n!=3)

a- **F**

b- T

 100 - n= 3

Print(not(n!=3)

a- <u>**T**</u>

b- F

101- find error

1- Print(eval("20"))   out put is   sring 20 X out   is int
2- Print("total"+ (total)) must but str

Write program?

write program table 2	For I in the range (1,11): Print('2x'),I,'='2*I)
PROGRAM print number from 1 to 50 div by	For I in range (1,51): If(i%5==0) Print i

Program use 1 to 50 and div by 5 break if i==25	For I in range (0,51):
	If (i%5==0):
	Print (i)
	If (i==25)
	break

Program can do table 2 if any number div by 5 don't wite it	For I in range (1:11) Product=2*i If (product%5==0): Continue Else: Print('2x',I,=product)
Have sequence of event number from 0 to -50	For I in range (0,-51,2-)
Find area rectangle	L= int (input (lengh) W = int (input(w))

| | ```
Area= l*w
Print ("area",area)
``` |
| | ```
i=0
while(i<10):
    print(i)
    i+=1
``` |

102- 5.12534 find 2f   is 5.12

```
weight=float (input("weight")))
if(weight<70):
  print("normal")
elif(weight>=70):
    print("over")

else:
    print("error")
```

103- In input   weight = 70   out put is

1- Normal
2- Over
3- Error

```
for i in range(2,21,2):
```

```
                print(i)
104- out put
    1-  1-3-5-7-9-11-13-15-17-19
    2-  2-4-8-10-12-14-16-18
```

```python
age =int(input("enter age"))
if((age>=3)and(age<=5)):
  print("toddler ")
elif((age>=5)and(age<=12)):
   print ("Grade_ school")
elif((age>=12)and(age<=18)):
  print ("Teen")
elif((age>=18)and(age<=21)):
  print ("young Adult")
elif(age>21):
   print("Adult")
else:
    print("error")
```

105- if the age = 18 print

  a- young Adult

  b- Adult

106 – a=1
```python
      For I in range (1,11):
       a+=1
      print (a)
```

  1- 2-3-4-5-6-7-8-9-10-11

  2- 1-2-3-4-5-6-7-8-9-

_____

```
a="nasser"
b="al nasser"
c="jeddah"
d="0124523"
e= "unversty of jaddah"
print(a,'\n',b,'\n',c,'\n',d,'\n',e)
```

<mark>106- out   put</mark>

Nasser al Nasser jaddah   (X)

_____

حل اسئله الكتاب شابتر5

5-1 data   type

Source code	Datatype	
My_name='mohamed'	String	Print(type(my_name))
My_university_id=1234	integer	
My_weght=52.6	float	
My _computer_name=my_name+"salah"	string	
Instructor= "saeed"	string	
Spcial _today='chef'sspecial'	Error	
Marks=[75,64,90,81,60]	list	
Right_handed=false	boolen	
Data={'mathematics':95,'physics:80}	Dirctionary	
Understand_data_type=true	Boolen	

5-2

Source code	Program output
Hello="hello" Print(Hello)	hello
World="world" Print(world)	world
Year='2019' Print(year)	2019
day =1 print (day)	1
Month=1 print(month)	1
helloworld=hello+""+world Print(helloworld)	Hello+world
Hellonewyear=hellworld+"itis"+year	Error
Hellonewyeardate=helloworld+"itis"+day+month+year	Error لازم تعريف المتغير srt hellonewyear=(helloWorld+"it is"+str(day)+str(Month)+str(year)) hello+worldit is112019
Hellonewyear= input("Enter current Islamic year")	hellonewyear=input("Enter current islamic year") print(hellonewyear) Enter current islamic year

Ex 5.3

Source code	Out put
a=5 b=6 c=a+b print(c)	11
a='5' b='6' c= a+b print (c)	56
a=5 a*=5 b=6 b/=6 c=a-b print(c)	24
a=5 a=a%2 b=6 b=b%7	باقي القسمه هنا 1 هو الباقي 6 1

| ```python
print(a)
print(b)
c=b//4
print(c)
``` | |
| ```python
a=5
b=6
if(a==5)and(b!=5):
 print("True!")
else:
 print("false")
if(a==7)or(b!=5):
 print("True?")
else:
 print("false?")
``` | ```
True!

True?
``` |
| ```python
a=20
b=[5,'20',25,'17',45]
c='20'
print(a in b)
print(c in b)
``` | ```
False
true
``` |
| ```python
a=5
b=6
print(a|b)
print(a&b)
print(a^b)
a=5
b=6
a,b=a*b,b-a
print(a)                    30
print(b)                     1
``` | ```
7
4
```
عكس ال 3  and |

Ex 5.5

| Source code | Out put |
|---|---|
| ```python
a=1
for i in range (1,11):
  a+=1
``` | 2<br>3<br>4<br>5 |

| ```python
    print(a)
``` | 6<br>7<br>8<br>9<br>10<br>11 |
| ```python
a=5
while(a>1):
    print(a)
    a-=1
``` | 5<br>4<br>3<br>2 |
| ```python
for x in range (0,4,2):
    print (x)
``` | 0<br>2 |
| ```python
number_list=[1,2,3,4,5]
a= 10
b= 3
c=a-b
while(c not in number_list):
    print(c)
    c-=1
``` | 7<br>6 |
| ```python
for i in range(1,15):
    if(i%3==0):
        print(i)
        if(i==9):
            break
``` | 3<br>6<br>9 |
| ```python
for i in range(-10,0):
    product= 2*i
    if(product%4==0):
        continue
    else:
        print('2x',i,'=',product)
``` | 2x -9 = -18<br>2x -7 = -14<br>2x -5 = -10<br>2x -3 = -6<br>2x -1 = -2 |
| | |

Question

1- which of fllowing invalid varuable?
   a- string_number_1

b- xth_number
c- <u>1st number</u>

2- What output

Print ("hello"+13+2+)

    a- Hello 123
    b- Hello
    c- <u>Error</u>

3- <u>What value expretion : 8.2/4/2/4/8</u>
    <u>(1.0,1.0)</u>

4- <u>Int(x)var xcoverted to int</u>
    <u>1-True</u>
    2-f

5- which correct power (xy)
    <u>b- x**y</u>

6- what answer 33%6
    a- 7
    b- <u>3</u>

7- <u>What out put</u>
    X={0.1.2}
    Fori in x
    Print (i)
    a- <u>0,1,2</u>

8- <u>Def example(s):</u>
    s=s+'2'   2 2 2
    s=s+'2'
    returna
    example('2')
    a- 22
    b- 222
    c- 2
    d- <u>Cannot perform mathematical operation</u>

<div dir="rtl">

<u>الحل هنا لو كان return s يغطي الناتج 222</u>

مهندسه هند سليم
</div>

0596420301

مهندسه

هذ سلاح

0596420301

مهندسه

هذا سلاح

0596420301

لطباعه اقل رقم من تلات اعداد

#find the min for 3 number

```python
a= int(input("a1"))
b= int(input("b1"))
c= int(input("c1"))
if (a<b)and(a<c):
    print("min is ",a)
elif (b<a)and(b<c):
    print("min is ",b)
else:
    print("minis",c)
```