



مدونة المناهج السعودية

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الموقع التعليمي لجميع المراحل الدراسية

في المملكة العربية السعودية

Ch2 :-

Choose :-

1- computer program
a- <u>Is sequence of very precise ins that computer executes for an intended purpose</u>
b- Plan for upgrading a computer system
2- flow charts
a- <u>:- express a sequence of step to perform a certain task</u>
b- It software package
c- Tool control the speed at which computer program runs
3- Flowgorithm:-
1- Lets new programming build flowcharts that can be executed step by step showing user how value of variable change with each step currently .
2- Free software package to create flowchart
3- Free software packet to execute and debug flowchart
4- <u>All</u>
5- Flowgorithm can change language from press
1- <u>F12</u> 2- f10 3- f5
6- computers need the ability to store or remember values. This is done using 1- <u>variables</u> 2- number 3 text
7- -----in computer programs are containers that can store different kinds of numbers or text 1- <u>Variables</u> 2- number 3 text
8- Types of variables
■ Integer. صحیح ای ارقام صحیحہ موجبہ و سالبہ
■ Real. ارقام کسریہ
■ String. الحروف و الرموز.

■ Boolean

■ All

9- Ex Integer

1- 1.3-----

2 -2-

3- 3

4- "4"

10- ----- value are write in double quotes ("----") Number store as string cannot used for collations

1- String 2- integer 3- real

11- Stores only 1 bit of inf with one or two possible option

1-String 2- integer 3- real 4- **Boolean**

12-Simple mathematic operation

a- + ---addition

b- - ----subtraction

c- *----multiplication

d- /----- div

e-All

13- $1 + 3^2 =$

a- **10**

b- 12

c- 6

14- $7 * (4 - 1)$

a- **21**

b-7

c- 27

15- $10 \text{ Mod } 3$

a- **1**

b- 2

c- 4

16- Task Repetition is an essential element of computer program the structure used to define repetition in computer program is called

1- Loop

2- if

3 sum

17-sequences of blocks, is put inside a loop and is run repeatedly and

is called the

1- Loop 2- body of the loop 2- if

18 - Iteration

- 1- .Each execution of the code inside a loop
- 2- body of the loop

19 - loops are mainly three different types:

- 1- For loop 2- While loop 3- Do-while loop 4- all

20 - -----usually used when it is know beforehand how many time the body of the loop is to be executed

- 1- For loop 2- While loop 3- Do-while loop 4- all

21- ----- . Usually use when it is not known beforehand how many time the body of the loop is to be executed

- 1- For loop 2- While loop 3- Do-while loop 4- all

22- Different between dowhile , while

- 1- Do while is pre test loop
- 2- While loop post test
- 3- Dowhile post test loop test after execution

23- All elements of an array are of the same data type and store element

- 1- Array 2- list 3 – direction

24- While begins by checking the condntion to determine whether to execute the very iteration then execute the body of loop

- 1- Pre test loop
- 2- Post test loop

25- Do while begin by executing the first interation and only after ward cechs the status of the condntion

- 3- Pre_test loop
- 4- Post test loop

26- Each element of an array can be accessed by the name given to the array and a number indicating its location in the array

- 1- Index
- 2- array
- 3 – list

27- . Computer code, or in the case of executable flowcharts like we are using, sequences of blocks, is put inside a loop and is run repeatedly and is called the body of the loop()

28- Function receive value of variable to work on

- 1- parameters
- 2- value

1- 29 Allow us to divide complex sequences of operation into multiple smaller flowchart when call statement transfer control to another function

- 1- Function
- 2- call

30- read statement value from the keyboard and stores the result in a variable

- 1- Input
- 2- out put
- 3 – if

31- statement evaluates an expression and then displays the result to the screen

- 1-Input
- 2- out put
- 3 – if


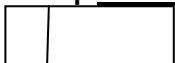

32-Parall elogram its represent

- 1- While
- 2 input
- 3- output
- 4 - num 2,3

33- statement is used to create variable and arrays these are used to store data while program run

- 1- Input
- 2- Declare
- 3- for loop

34-what mean this chip Declare:-

- 1- 
- 2- 
- 3- 

35- calculates an expression and then stores the result in a variable

While 2 input 3- **Assignment**

36- ----- checks Boolean expression then executes a true or false branch based on result

1-While 2- **boolean** 3- if

37- diamond chip mean

1-Input 2- **if** 3- boolean

38- increment or decrement variable through arrange of value

1- **For** 2- while 3- do while

39- hexagon

1- **For loop** 2- **while loop** 3 – do while loop

40- evaluates a Boolean expression and if true executes statement . it rechecks the expression and loop until it is false

1- For 2- **while** 3- do while

41- Allow program to both reuse code and simplify logic data is passed into function using parameters

1- **Function** 2- for 3 – do while

42- transfer control to function inf is passed into the function using "argument"

1- Function 2- **call** 3 array

43-

1- **Call** 2- declare

44- don't affect how your program run used for documentation about program for other programmer

- 1- **Comments** 2- call 3 **function**

2-

45- refer to process of removing any error in computer program

- 1- **Debugging program** 2- **function**

46- Program execute the value stored by different variables create in it may change from one step to next هنا يتم تسجيل كل خطوه من خطوات التنفيذ من كل الخطوات الموجوده

- 1- **Watching variables** 2- **Debugging program**



47- **stepping through a flowchart**

- 1- **It very important feature that is typically available in code development environment (/)**

48- temporarily halts execution of program is usefull both debugging program for demonstration

توقف مؤقت للتنفيذ

- 1- **Breakpoint** 2- **comment** 3- **function**

49 - can produce the equivalent code in any 21 programming languages

تحويل الفلو الى 21 لغه برمجه اخري

- 1- **Breakpoint** 2- **comment** 3- **Code generation**

50- **Modulo math gives the remainder from division**

- 1- **%** 2- **mode**

51- **The sequence of:**

. "condition check – execute – condition check – execute – ... – condition check – exit

- 1- **For loop** 2- **while loop** 3 – **do while loop**

52- **while loop is:**

■ "Execute – condition check – executive – ... – condition check – exit"

- 1- **For loop** 2- **while loop** 3- **do while loop .**

- 1- 53- while loop Check condition to to exit loop (/)
2- Loop condition is test after executing the loop in while loop (X)
3- Loop body is ex at least once in do while (/)
1- Loop condation is test before execution the loop body while (/)
2- Loop body may not be executed at all do while (X)
3-

56- call it used in the main program ()

57- if condition is $a > 10$ when run by do while the output = 0 if the input 0 ()

حل اسئلة الكتاب

تمت

1- Computer program is ?

- b- It's a plan for upgrading a computer system
- c- Very precise set of instruction that a computer executes to perform a task
- d- A schedule or timetable that tracks of different tasks a computer must perform before shutting down
- e- None of the above

2- Flowcharts is ?

- a- Is tool to control the speed at which a computer program runs
- b- A software package
- c- A graphical tool to express a sequence of steps to perform a task using a standardized set of symbols
- d- None of the above

3- Flowgorithm is

- a- a free software package to create flowchart.
- b- A free software package to execute and debug flowchart
- c- A free software package to generate code from a flowchart for a host of different programming languages
- d- All

4- When the number of times a certain task has to be repeated is known beforehand for most situations the appropriate type of loop to use is a

- a- Do while loop
- b- While loop
- c- For loop
- d- None of the above

5- When the number of times a certain task has to be repeated is not known beforehand possibly because it is dependent on user input type loop

- a- Only a while loop
- b- Only do while loop

- c- Either a while loop or do while loop depend on the logic of task
- d- Neither
- 6- When the decision of performing a certain number of step depend on truth or falsehood of logical or mathematical statement the appropriate block to use in flow chart is
- a- Input block
- b- Output block
- c- If block
- d- Assignment block
- 7- When flowchart need to remember or store value is does so using
- a- User input
- b- Output
- c- Variable
- 8- Break point is a block that
- a- Can be added to a flowchart to pause the execution of flowchart every time the breakpoint is reached
- b- Stands output message to console window
- c- None of above
- 9- Number of type variable
- 1- 1
- 2- 2
- 3- 3
- 4- 4
- 10- The key bord symbol used to represent the mathematic multiplication operation is the
- a- *
- b- /
- c- ^
- d- %