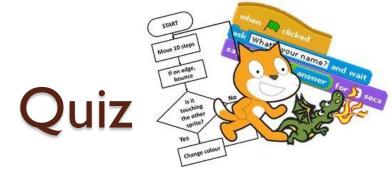
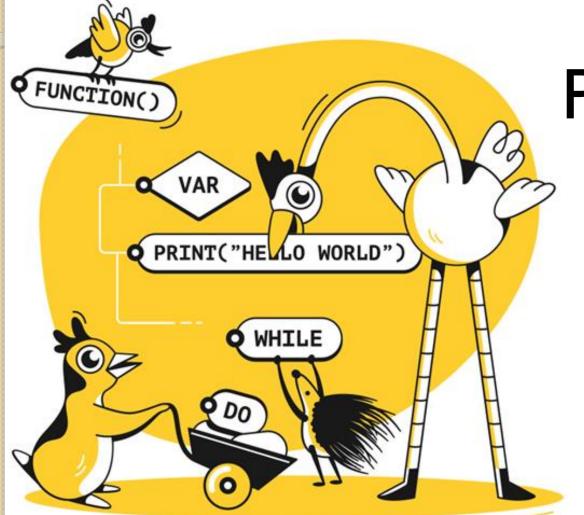


Musaeus College Colombo

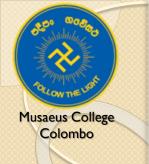




Programming

Grade 9
ICT

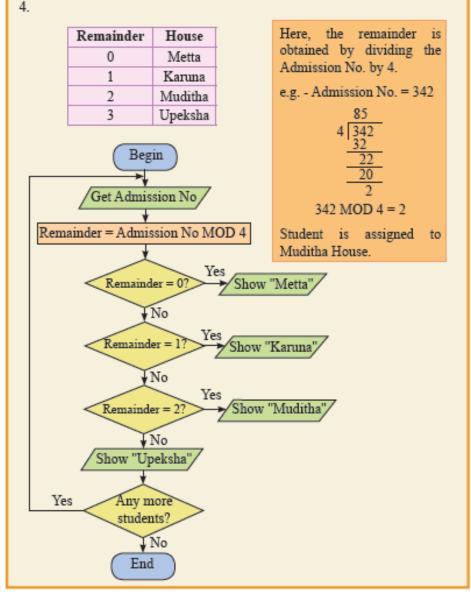
27th November 2020

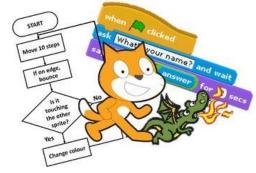


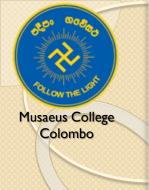
Answers

Activity 3.2

Consider that, a school has four houses namely Metta, Karuna, Muditha and Upeksha. A flowchart to assign students to their houses is given below. Houses are assigned based on the remainder after dividing the admission number by



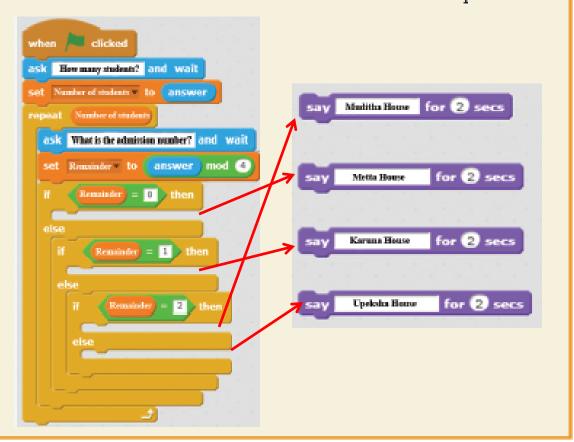


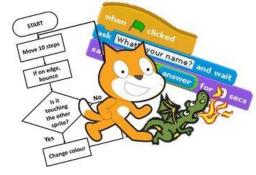


Answer the following questions.

- 1. A number that cannot exists as a remainder
 - 1) 0
- 2) 2
- 3) 3
- 4) 4
- 2. A suitable remainder for a student assigned to Upeksha House is:
 - 1) 3
- 2) 2
- 3) 1
- 4) 0
- 3. How many conditions are there in this flowchart?
 - 1) 1
- 2) 2
- 3)3
- 4) 4

The Scratch program to divide all students in the school into houses is shown below. Connect with arrows the instructions relevant for blank spaces.







Activity 3.4

- y 3.4
- 1. Develop a programme with an array to enter 5 subjects learnt in Grade 9.
- Construct a suitable program based on an array to output seven days of the week. Name the Array as "day".
- 3. Find answers based on the array called "color" shown below.

```
when clicked

delete all of Color repeat 7

ask Enter the color and wait

add answer to Color
```

- 4. How many times the above programme is repeated when it is executed?
- 5. How many colors can be assigned to the array "color"?
- Select the suitable statements and match them with the instructions given below.
 - a) To delete all the items in the array.

```
add answer to Color
```

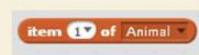
b) Number of items in the array

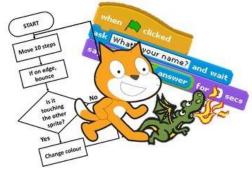


c) The first item in the array



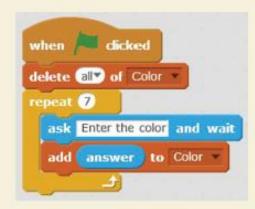
d) Entering items into the array.



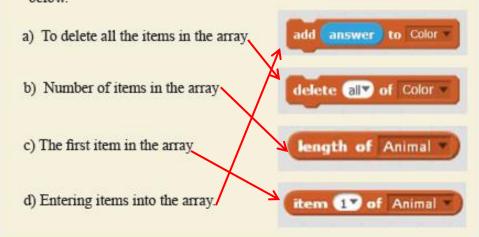


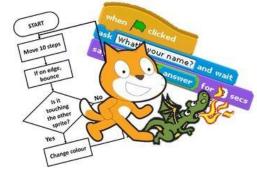


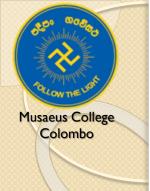
- Activity 3.4
- 1. Develop a programme with an array to enter 5 subjects learnt in Grade 9.
- 2. Construct a suitable program based on an array to output seven days of the week. Name the Array as "day".
- 3. Find answers based on the array called "color" shown below.



- 4. How many times the above programme is repeated when it is executed? 7
- 5. How many colors can be assigned to the array "color"? 7
- 6. Select the suitable statements and match them with the instructions given below.







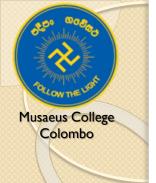
Quiz time

I. Programming languages give computer instructions

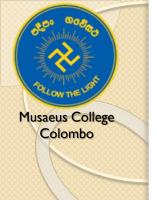
- A. True
- B. False

2.A completed program in scratch.

- A. Scratch
- B. volume
- C. project



- 3. _____ is the art of writing instructions to tell a computer what to do.
 - A. Programming
 - B. Debugging
 - C. Variable
- 4. Which symbols are used to start and stop in a flowchart?
- A. .
- B. .
- C. .
- D. .

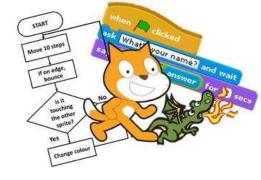


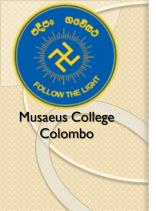
5. What is Scratch?

- A a programming language/tool
- B. a code
- Can animation
- D.a computer



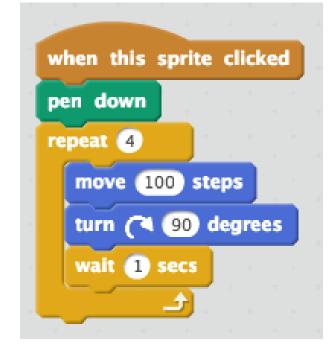
- A. sprite
- B. variable
- C. loop
- D. function

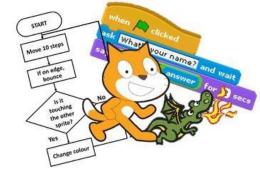




7. This script would draw a

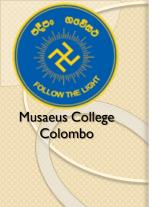
- A. star
- B. square
- C. pentagon
- D. Hexagon





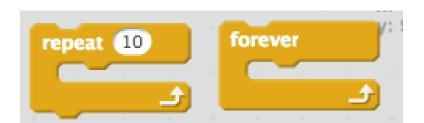
8. Performing an action depending on IF a criteria is met is called a

- A. sequence
- B. statement
- C. loop
- D. Condition



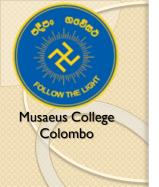
9. Repeating a statement more than once is called

- A. loop
- B. sequence
- C. repetition
- D. Event



10. To send a message between sprites or from the sprite to the stage, you need to

- A. sequence
- B. send
- C. transmit
- D. Broadcast



II. How many times would this code need to repeat to

make a full circle?

A. 90

B. 180

C. 360

D. 720



12. The green blocks that allow comparisons such as >, <, =,

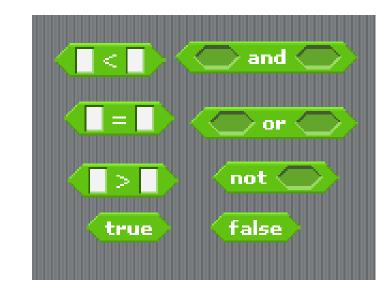
>=, <= are called..?

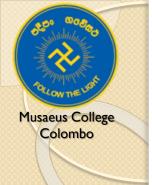
A. logics

B. operators

C. formulas

D. expressions



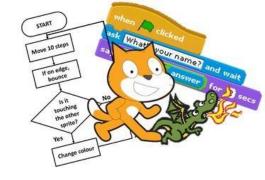


13. How do you create a loop in scratch?

- A. use a repeat block
- B. snap a block
- C. use a variable
- D. use a condition block

14. What will this script do?

- A. draw random colors
- B. draw random shapes
- C. draw random colored shapes in random places
- D. draw random numbers



```
when clicked

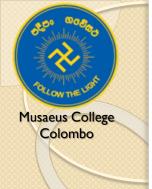
clear

forever

pen down

go to x: pick random -240 to 240 y: pick random 180 to -180

change pen color by pick random 1 to 100
```

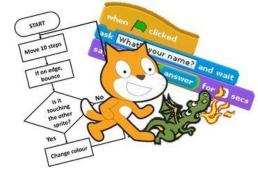


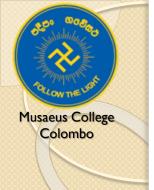
15.An algorithm is...

- A. .. A set of instructions
- B. ... A motion block
- C. ... A character
- D. ... A loop statement



- A. Sprite
- B. Script
- C. Scratch
- D. Help





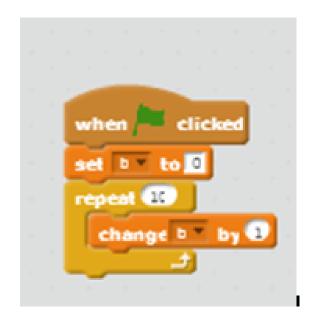
17. Blocks that allows you to execute one oftter the other times.

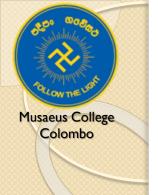
- A. repeating blocks
- B. if
- C. condition
- D. sequence

18. What is the final value of b?

- A. 0
- B. 9
- C. 10
- D. | |

What is the final value of b?

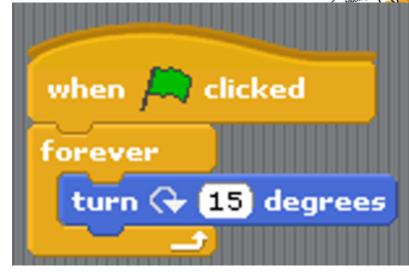




19. What will happen when the green flag is clicked?

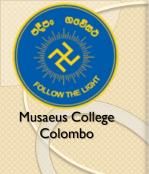
A. Make a character spin

- B. Make the ball bounce
- C. Start the game
- D. Make the Sprite spin

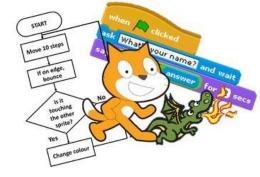


20. Performing an action depending on IF a criteria is met is called a

- A. sequence
- B. statement
- C. loop
- D. condition



Thank you



Have a nice day......

Prepared by Kinkini Kumarage