

PYTHON IN 10 VIDEOS

Assignment - 2

1. Which leads to infinite while loop ?

- a. `while(True) print("chutney")`
- b. `while(x<10) print("chutney")`
- c. `while(False) print("chutney")`
- d. `while(x!=5) print("chutney")`

2. While loop definition?

- a. Execute on condition
- b. Iterates over a sequence
- c. Executes the code block for predetermined number of times
- d. For list operations

3. For loop definition?

- a. Execute on condition
- b. Iterates over a sequence
- c. Executes the code block for predetermined number of times
- d. For list operations

4. Minimum number of times a while loop executes?

- a. 0
- b. 1
- c. 2
- d. Depends on the condition

5. While loop without termination can cause?

- a. Slows down the program
- b. Consumes more memory
- c. Infinite loop
- d. Syntax error

6. What happens when you iterate over an empty sequence using for loop?

- a. Loop executes once
- b. Loop throws error
- c. Loop doesn't execute at all
- d. Loop runs indefinitely

7. range():

- a. Generates list of numbers
- b. Specifies number of iterations
- c. Defines start & end points for looping
- d. Generates sequence of numbers

8. Define 'continue'

- a. Exits loop immediately
- b. Comes out of current iteration & move on to next iteration
- c. Restarts loop from beginning
- d. Stops execution

9. When to use 'pass'?

- a. To exit loop
- b. To comes out of current iteration & move on to next iteration
- c. To act as placeholder when no action is required on certain condition
- d. To restart loop from beginning

10. Find output:

```
for i in range(5):  
    if i==2:  
        break  
    print(i)
```

- a. 0 1 2 3 4
- b. 0 1
- c. 0 1 2
- d. 1 2 3 4

11. Find output:

```
for i in range(5):  
    if i==2:  
        continue  
    print(i)
```

- a. 0 1 3 4
- b. 0 1
- c. 0 1 2
- d. 0 1 2 3 4

12. What does 'break' do?

- a. Exits loop immediately
- b. Skips rest of code inside current iteration
- c. Restarts loop from beginning
- d. Terminates the code

14. Find output:

```
a = 10
b = 5
c = 20

if a > b and a > c:
    print("a is big")
elif b > a and b > c:
    print("b is big")
else:
    print("c is big")
```

- a. a is big
- b. b is big
- c. c is big
- d. Indentation error

15. Find output:

```
a = 5
b = 10
c = 15

if a < b:
    if b < c:
        print("c is big")
    else:
        print("b is big")
else:
    print("a is big")
```

- a. a is big
- b. b is big
- c. c is big
- d. error

16. Find output:

```
x = 15
if x<10:
    print("x is less than 10")
elif x>20:
    print("x is greater than 20")
else:
    print("x is btw 10 and 20")
```

- a. x is less than 10
- b. x is greater than 20
- c. x is btw 10 and 20
- d. None of the above

16. Find output:

```
x = 5
if x>10:
    print("x is greater than 10")
elif x==5:
    print("x is 5")
else:
    print("x is just dummy")
```

- a. x is greater than 10
- b. x is 5
- c. x is just dummy
- d. None of the above

17. What is the datatype of input() function's result?

- a. Int
- b. String
- c. list
- d. float

18. Find output:

```
for i in range(1, 10, 3):  
    print(i)
```

- a. 1, 4, 7
- b. 1,3,5,7
- c. 2,6,9
- d. Syntax error

19. Write a program that prints a 5x5 grid of asterisks (*) using nested loops.

20. Write a program that asks the user to input a number and prints all the even numbers from 1 to that number using a for loop.