



Python

Interview Questions

1. The continue keyword is used to ____ the current iteration in a loop.

- A. Initiate
- B. Start
- C. End
- D. None of the mentioned above

Answer: C) End

Explanation:

The continue keyword is used to terminate the current iteration of a for loop (or a while loop) and proceed to the next iteration of the for loop (or while loop). With the continue statement, you have the option of skipping over the portion of a loop where an external condition is triggered, but continuing on to complete the remainder of the loop.

2. Amongst which of the following is / are true about the while loop?

- A. It continually executes the statements as long as the given condition is true
- B. It first checks the condition and then jumps into the instructions
- C. The loop stops running when the condition becomes fail, and control will move to the next line of code.
- D. All of the mentioned above

Answer: D) All of the mentioned above

Explanation:

While loops are used to execute statements repeatedly as long as the condition is met, they are also used to execute statements once. It

begins by determining the condition and then proceeds to execute the instructions.

3. The ____ is a built-in function that returns a range object that consists series of integer numbers, which we can iterate using a for loop.

- A. range()
- B. set()
- C. dictionary{}
- D. None of the mentioned above

Answer: A) range()

Explanation:

This type represents an immutable sequence of numbers and is commonly used in for loops to repeat a specific number of times a given sequence of numbers.

4. What will be the output of the following Python code?

```
for i in range(6):
```

```
    print(i)
```

0

1



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2

3

4

5

0

1

2

3

1

2

3

4

5

None of the mentioned above

Answer: A)

0

1

2

3

4

5

5. The looping reduces the complexity of the problems to the ease of the problems?

- A. True
- B. False

Answer: A) True

Explanation:

The looping simplifies the complex problems into the easy ones. It enables us to alter the flow of the program so that instead of writing the same code again and again, we can repeat the same code for a finite number of times.

6. The while loop is intended to be used in situations where we do not know how many iterations will be required in advance?

- A. True
- B. False

Answer: A) True

Explanation:

The while loop is intended to be used in situations where we do not know how many iterations will be required in advance.

7. Amongst which of the following is / are true with reference to loops in Python?

- A. It allows for code reusability to be achieved.
- B. By utilizing loops, we avoid having to write the same code over and over again.
- C. We can traverse through the elements of data structures by utilizing looping.
- D. All of the mentioned above

Answer: D) All of the mentioned above

Explanation:

Following point's shows the importance of loops in Python.

- ☐ It allows for code reusability to be achieved.
- ☐ By utilizing loops, we avoid having to write the same code over and over again.
- ☐ We can traverse through the elements of data structures by utilizing looping.

8. A function is a group of related statements which designed specifically to perform a ____.

- A. Write code
- B. Specific task

- C. Create executable file
- D. None of the mentioned above

Answer: B) Specific task

Explanation:

A function is a group of related statements designed specifically to perform a specific task. Functions make programming easier to decompose a large problem into smaller parts. The function allows programmers to develop an application in a modular way. As our program grows larger and larger, functions make it more organized and manageable.

9. Amongst which of the following is a proper syntax to create a function in Python?

```
def function_name(parameters):
```

```
...
```

```
    Statements
```

```
...
```

```
def function function_name:
```

```
...
```

```
    Statements
```

...

def function function_name(parameters):

...

Statements

...

None of the mentioned above

Answer: A)

def function_name(parameters):

...

Statements

...

Explanation:

The range(6) is define as function. Loop will print the number from 0.

10. Once we have defined a function, we can call it?

- A. True
- B. False

Answer: A) True

Explanation:

Once a function has been defined, it can be called from another function, a program, or even from the Python prompt itself.

11. Amongst which of the following shows the types of function calls in Python?

- A. Call by value
- B. Call by reference
- C. Both A and B
- D. None of the mentioned above

Answer: C) Both A and B

Explanation:

Call by value and Call by reference are the types of function calls in Python.

12. What will be the output of the following Python code?

```
def show(id,name):
```

```
    print("Your id is :",id,"and your name is :",name)
```

`show(12,"deepak")`

Your id is: 12 and your name is: deepak

Your id is: 11 and your name is: Deepak

Your id is: 13 and your name is: Deepak

None of the mentioned above

Answer: A) Your id is: 12 and your name is: Deepak

13. Amongst which of the following is a function which does not have any name?

Del function

Show function

Lambda function

None of the mentioned above

Answer: C) Lambda function

14. Can we pass List as an argument in Python function?

A. Yes

B. No

Answer: A) Yes

Explanation:

In a function, we can pass any data type as an argument, such as a string or a number or a list or a dictionary, and it will be treated as if it were of that data type inside the function.

15. A method refers to a function which is part of a class?

A. True

B. False

Answer: A) True

Explanation:

A method is a function that is a part of a class that has been defined. It is accessed through the use of an instance or object of the class. A function, on the other hand, is not restricted in this way: it simply refers to a standalone function.

16. The return statement is used to exit a function?

A. True

B. False

Answer: A) True

17. Scope and lifetime of a variable declared in a function exist till the function exists?

- A. True
- B. False

Answer: A) True

Explanation:

It is the portion of a program where a variable is recognized that is referred to as its scope. It is not possible to see the parameters and variables defined within a function from outside of the function. As a result, they are limited in their application.

18. File handling in Python refers the feature for reading data from the file and writing data into a file?

- A. True
- B. False

Answer: A) True

Explanation:

File handling is the capability of reading data from and writing it into a file in Python. Python includes functions for creating and manipulating files, whether they are flat files or text documents.

19. Amongst which of the following is / are the key functions used for file handling in Python?

- A. open() and close()
- B. read() and write()
- C. append()
- D. All of the mentioned above

Answer: D) All of the mentioned above

Explanation:

The key functions used for file handling in Python are: open(), close(), read(), write(), and append(). the open() function is used to open an existing file, close() function is used to close a file which opened, read() function is used when we want to read the contents from an existing file, write() function is used to write the contents in a file and append() function is used when we want to append the text or contents to a specific position in an existing file.

20. Write a Python program to count vowels in a string.

Ans-

```
In [4]: # count vowels in a string
# declare, assign string
str = "Hello world"

count = 0
# iterate and check each character
for i in str:
    # check the conditions for vowels
    if (
        i == "A"
        or i == "a"
        or i == "E"
        or i == "e"
        or i == "I"
        or i == "i"
        or i == "O"
        or i == "o"
        or i == "U"
        or i == "u"
    ):
        count += 1
# print count
print("Total vowels are: ", count)
```

Total vowels are: 3