

14-2-2022

1.) Explain about the main method in Java?

- A main() method in Java is an entry point to start the execution of a program has at least one class and at least one main method

```
public static void main (String args[])
```

~~1.)~~

1.) Public:-

The public modifier makes it accessible from anywhere in the application

2.) Static:- The static modifier makes it a class method so that it can be called using the class name without creating an object of the class.

3.) Void:- The return type of the main method is void which means that it does not return a value to its caller.

4.) main:- It is the name of a method where execution will start. In Java, the main method is called by JVM.

5.) String [] args:- The main method accepts one argument of the type of string array.

2.) What are the different control flow statements available in Java?

1.) Decision making statements

- if statements
- if else statements
- switch statements

2.) Loop statements

- for loop
- for-each loop
- do while loop
- while loop

3.) Jump statement

- Break statement
- Continue statement

3.) What is the Difference b/w break and continue statements?

Ans Break statement is used to exit from the loop

Continue statement is used to skip the particular iteration of loop

4.) What is Array? How will you declare an array in Java.

Ans Array is a container to store multiple data of a same data type

Array is a collection of similar data type

The array declaration has two components:- The type and name.

`int[] num = [1, 2, 3, 4,]`

5.) When will you get Array Indexout of Bounds Exception?

The arrayindexout of Bounds Exception occurs when ever we are trying to access any item of an array at an index which is not present in the array. In other words, the index may be negative or exceed the size of an array

6.) Define the Syntax to Create an object for a class

When we create an instance of the class by using the new keyword, it allocates memory for the newly created object and also returns the reference of that object to that memory. The new keyword is also used to create an array. The Syntax for creating an object is

className object = new className()

7.) What is Variable? How will you declare a variable in Java.

Ans! Variable is a Data Type whose value can not be fixed. It can be changed based on other parameters.

To declare a variable, you will specify the type, leave at least one space, then name for the variable and end the line with a semicolon (;)

8.) What is String in Java? It is a Data Type?

(i) A String is a sequence of characters that exist as an object of the class String.

(ii) String is a non-primitive data type.

9.) What are the different ways to create the String object in Java?

Ans!
(i) By String literal [String a = "word"]
(ii) By new keyword [String a = new String()]

10.) What is the Difference b/w equals and ==?

(i) equals method for content comparison
(ii) == operator for reference comparison