**1.Explain about the main method in java?**

Main is the name of Java main method. It is the first thing that runs when you compile and run the Java program. The main method is searched by JVM as the starting point where the Java program starts its execution.

**2.What are the different Control flow Statements available in java?**

**The types of control flow statements as follows:**

1. Decision Making Statements
2. Looping Statements
3. Branching Statements

**3.What is the Difference between break and continue statements?**

The break statement is used to terminate the loop immediately. Break keyword is used to indicate break statements in java programming.

The continue statement is used to skip the current iteration of the loop. continue keyword is used to indicate continue statement in java programming.

**4.What is an Array? How will you declare an array in java?**

An array is a collection of similar type of elements which has contiguous memory location. Java array is an object which contains elements of a similar data type. The way of declaring an array is to simply line up the type name, followed by a variable name, followed by a size in brackets, as in this line of code: int Numbers[10];

**5.When will you get ArrayIndexOutOfBoundsException?**

The ArrayIndexOutOfBounds exception is thrown if a program tries to access an array index that is negative, greater than, or equal to the length of the array. ThArrayIndexOutOfBounds exception is a run-time exception. Java's compiler does not check for this error during compilation.

**6.Define the Syntax to create an object for a class? What are the naming conventions to be followed while creating a class, method and a variable? Explain with example?**

When we create an instance of the class by using the new keyword, it allocates memory (heap) 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 variables in java?**

Variables are containers for storing data values. To declare a variable in Java, all that is needed is the data type followed by the variable name eg: int numberOfDays;

**8.What is String in java? Is it a Data Type?**

Strings, which are widely used in Java programming, are a sequence of characters. String is a class in java and reference data type. String is a array of character so it is not a primitive data type.

**9.What are the different ways to create the String Object in java?**

There are two ways to create a String object:

1. By string literal : Java String literal is created by using double quotes. For Example: String s=“Welcome”;
2. By new keyword : Java String is created by using a keyword “new”. For example: String s=new String(“Welcome”);

**10.What is the Difference between .Equals and ==?**

== checks if both objects point to the same memory location .

equals() evaluates to the comparison of values in the objects.