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

 ***main():*** *A main method in java is an* ***entry point to start the execution of a program.***

 *An application consists of many classes and only one of the class needs to have a main method.*

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

 The control flow is **the order in which the computer executes statements in a script.** Code is run in order from the first line in the file to last line,unless the computer runs across the structures that changes the control flow,such as conditional and loops.

Java supports following **control statements.**

* If-else Statement
* Switch Statement
* While Loop
* Do-While Loop
* For Loop
* Enhanced For-each Loop
* Break statement
* Continue statement

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

 **break statement:** The break statement is used to terminate the loop immediately.

 **Syntax:** break;

* **Continue statement:** The continue statement is used to skip the current iteration of the loop.

 **Syntax:** continue;

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

 An **array** is a collection of data objects of the same data type.it is used to store multiple values of same data type .

* Its index starts with 0.
* Its size is fixed.
* Array can be created for all datatypes and classes.
* ***An array can be declared by-[].***

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

 ArrayIndexOutOfBoundsException occurs when we access an array, or a Collection**,** that is backed by an array with an invalid index. This means that the index is either less than zero or greater than or equal to the size of the array.

 Additionally, bound checking happens at runtime.

**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 (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.

**7.what is variable? how will you declare a variable in java?**

* Variables are container for storing data values(variables that the object contain are called instance variables.
* To declare a variable in Java, all that is needed is **the data type followed by the variable name**: int numberOfDays; In the above example, a variable called "numberOfDays" has been declared with a data type of int.

**8.what is string in java? is it a data type?**

* A string is a **sequence of characters.**
* Non-primitive data types.(understanding)
* It’s a classes(template)

***Is it a data type?***

**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 the string object;**

* **By string literal:**java string literal is created by using double quotes.for example-String s=”welcome”;
* **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==?**

* **.equals()-**Evaluate to the comparison of value in the objects.
* **==()-**Check if both objects point to the same memory location whereas.