#### Q1. What are the Conditional Operators in Java?

**Ans**: It is ternary operator which check condition if condition is true then first statement is excuted else second statement is executed.

It is one line statement.

```
variable = (condition) ? expressionTrue : expressionFalse;
```

### Q2. What are the types of operators based on the number of operands?

Ans: There are 3 types of operands on behalf of operands:

- 1.Unary Operator: which work among with 1 operand.(Increment/Decrement).
- 2.Binary Operator: which work among with two operands.(Arithmetic/Relational).
- 3. Ternary Operator: which work among with 3 operands. (Conditional)

# Q3. What is the use of Switch case in Java programming?

**Ans:** The Java switch statement executes one statement from multiple conditions

```
switch(expression){
case value1:
  //code to be executed;
break; //optional
case value2:
  //code to be executed;
break; //optional
```

default:

```
//code to be excuted
}
```

Q4. What are the conditional Statements and use of conditional statements in Java?

Ans: Conditional statements in Java are used to make decisions based on certain conditions. The most common conditional statements in Java are the If-Else statement, the Switch statement, and the Ternary Operator. These statements allow the program to execute different blocks of code based on specific conditions

#### Q5. What is the syntax of if else statement?

```
Ans:

If(condition){

//statement to be executed;

}

Else if(condition){

//statement to be executed;

}

Else{

//statement to be executed;

}
```

## Q6. How do you compare two strings in Java?

Ans: In Java, string equals() method compares the two given strings based on the data/content of the string. If all the contents of both the strings are same then it returns true. If any character does not match, then it returns false.

```
Ex: str1.equals(str2);
```

Or many methods such as ==,compareTo,ignoreCase,toLowerCase these also used for two string comparision.

## Q7. What is Mutable String in Java Explain with an example?

**Ans:** Mutable strings are those strings whose content can be changed without creating a new object. StringBuffer and StringBuilder are mutable versions of

```
String in java, whereas the java String class is immutable. Immutable objects are
those objects whose contents cannot be modified once created.
Ex:-
StringBuffer str1 = new StringBuffer("JavaGoal");
StringBuilder str2 = new StringBuilder("Learning");
str1.append(".com");
str2.append(" website");
System.out.println("Value of str1 after change:" + str1);
System.out.println("Value of str2 after change:" + str2);
Q8. Write a program to sort a String Alphabetically
Ans:
import java.io.*;
import java.util.Arrays;
class sort{
public static void main(String[] args) throws Exception
String str = "rohitkumar";
char arr[] = str.toCharArray();
char temp;
int i = 0;
while (i < arr.length) {
int j = i + 1;
while (j < arr.length) {
if (arr[j] < arr[i]) {</pre>
temp = arr[i];
arr[i] = arr[i];
arr[j] = temp;
i += 1;
i += 1;
```

```
}
            System.out.println(arr);
}
}
Output: ahikmorrtu
Q9.Write a program to check if the letter 'e' is present in the word
'Umbrella'.
</aside>
Ans: public class Sample {
 public static void main(String args[]){
   String str = "Umbrella";
   System.out.println(str.contains("e"); );
 }
Output: true
Q10. Where exactly is the string constant pool located in the
memory?
Ans: Heap Memory Area.
```