| Test case Written | Junit code (Marks) | Selenium code | GitHub (Marks) | Viva (Marks) |
|----------------------|--------------------|---------------|-------------------|-----------------|
| (Marks) | | (Marks) | , | |
| 40 | 20 | 20 | 10 | 10 |

Junit(10 Questions with Answers)

1. Write a white box testing code (junit) to reverse a word and using assert statement for Proof the value

```
import static org.junit.Assert.assertEquals;
import java.util.Scanner;
class saveethaTest
{
       public static void main(String[] args)
       String str;
       char ch;
       Scanner sc=new Scanner(System.in);
       System.out.print("Enter a string : ");
       str=sc.nextLine();
       System.out.println("Reverse of a String "'+str+"' is :");
       for(int j=str.length();j>0;--j)
       {
               System.out.print(str.charAt(j-1));
       assertEquals("sse",str);
                       }
               assertEquals("sse",str);
}
}
```

2. Write a white box testing code (junit) to String comparison of word and using assert statement for Proof the value

```
import static org.junit.Assert.assertEquals;
import java.util.Scanner;
public class third {
  public static void main(String [] args)
  {
```

```
Scanner in=new Scanner(System.in);
System.out.println("enter the user name");
String str1=in.nextLine();
System.out.println("Reenter the user name");
String str2=in.nextLine();
assertEquals(str1,str2);
}
```

3. Write a junit code for voting system and uses assert statement and verify the white box testing?

```
import static org.junit.Assert.assertTrue;
import java.util.Scanner;
class four
{
  public static void main(String[] args)
{
  int age,shrt;
  Scanner scan = new Scanner(System.in);
  System.out.println(" Please enter your age");
  age = scan.nextInt();
  if(age>=18)
  {
    System.out.println("Welcome to voting system Yo can Vote");
  }
  else
  {
        shrt= (18 - age);
    System.out.println("Sorry,You can vote after :"+ shrt + " years");
    assertTrue(age==shrt);
  }
}
```

4. Write a program using function to calculate the simple interest. Suppose the customer is a senior citizen. He is being offered 12 percent rate of interest; for all other customers, the ROI is 10 percent. The output values should verify using white box testing?

```
float R=sc.nextFloat();
float T=sc.nextFloat();
float SI = (P * T * R) / 100;
System.out.println("Simple interest = " + SI);
assertTrue(3600==SI);
}
```

5. Given number is palindrome or not and verify The output values should verify using white box testing?

```
import java.util.Scanner;
import static org.junit.Assert.assertTrue;
public class palindrome
        public static void main(String args[])
                Scanner \underline{in} = \mathbf{new} \text{ Scanner}(\text{System.} \underline{in});
                int r, sum = 0, temp; int n = in.nextInt();
                temp = n;
                while (n > 0)
                        r = n \% 10; n = n / 10;
                        sum = (sum * 10) + r;
                System.out.println(sum);
                assertTrue(787==sum);
                if(temp==sum)
                        System.out.println(sum+" is palindrome number");
                else
                        System.out.println(sum+" is not palindrome number");
                }
        }
```

6. Write a program to convert Decimal number equivalent to Binary number and octal numbers? The output values should verify using white box testing?

```
import java.util.Scanner;
class binary

{
    public static void main(String[] args)
    { Scanner in = new Scanner(System.in);
    // decimal number
```

import static org.junit.Assert.assertTrue;

```
int decimal = in.nextInt();
// convert decimal to binary
String binary = Integer.toBinaryString(decimal);
System.out.println("BINARY IS " + binary);
//convert decimal to octal
System.out.print("OCTAL IS ");
System.out.println(Integer.toOctalString(decimal));
//assertEqual("1100", binary);
assertTrue(14== decimal);
}
```

7. Write a Java Program to Convert a Given Number of Days in Terms of Years, Weeks & Days. The output values should verify using white box testing?

```
import static org.junit.Assert.assertTrue;
import java.util.Scanner;
public class year
       public static void main(String args[])
              int m, year, week, day;
              Scanner s = new Scanner(System.in);
              System.out.print("Enter the number of days:");
              m = s.nextInt();
              year = m / 365;
              assertTrue(2==year);
              m = m \% 365;
              System.out.println("No. of years:"+year);
              week = m / 7;
              m = m \% 7;
              System.out.println("No. of weeks:"+week);
              day = m;
              System.out.println("No. of days:"+day); }
               }
```

8. Find the factorial of n? The output values should verify using white box testing?

```
import static org.junit.Assert.assertTrue;
import java.util.Scanner;
class factorial
{
public static void main(String[] args)
```

```
{
int i,j,pr=1;
try{
Scanner s=new Scanner(System.in);
System.out.println("Enter the number to find the factorial");
int n=s.nextInt();
if(n<0)
System.out.println("Invalid");
else if(n==0)
System.out.println("1");
else
for(i=n;i>0;i--)
pr=pr*i;
System.out.println("The answer is:"+pr);
assertTrue(120==pr);
catch(Exception e)
System.out.println("Invalid");
}
}
```

9. Find the year of the given date is leap year or not .The output values should verify using white box testing?

```
import static org.junit.Assert.assertTrue;
import java.util.Scanner;
class leapyear
{
    public static void main(String[] args)
    {
        int i=0;
        System.out.println("Enter the date/month/year");
        Scanner s=new Scanner(System.in);
```

```
String re=s.next();
String[] r=re.split("/",3);
int x=Integer.parseInt(r[2]);
assertTrue(x==2000);
if(x%4==0)
{
System.out.println("It is an leap year");
}
else{
System.out.println("It is not a leap year:");
}
}
```

10. Write a program to find the square, cube of the given decimal number. The output values should verify using white box testing?

```
import static org.junit.Assert.assertTrue;
import java.util.Scanner;
public class CubeSquare{
public static void main(String[] args)
{
try{
Scanner s=new Scanner(System.in);
System.out.println("Enter an number");
double n=s.nextDouble();
double a=0,b=0;
a=n*n;
b=n*n*n;
System.out.println("The square of number="+a);
System.out.println("The square of number="+b);
catch(Exception e)
System.out.println("Invalid");
}
assertTrue(expected output==a);
assertTrue(expected output ==b);
}
```

Sellinium (5 Questions with answers)

- 1. Write a sellinium program for automation and open a chrome browser with google.com
- 2 Write a sellinium program for automation and open a Mozila browser with google.com

- 3. Write a sellinium program to Automate login in ARMS Portal with the help of Chrome browser
- 4. Write a sellinium program Automate login in IRCTC Portal with the help of Chrome browser
- 5. Write a sellinium program Automate login in Swiggy Portal with the help of Chrome browser.

Case study 10

- 1. Take any system (e.g. ATM system) and study its system specifications and report the various bugs.
- 2. Write the test cases for any known application (e.g. Banking application)
- 3. Write the test cases for GMAIL
- 4. Write the test cases for FACEBOOK, TWITTER etc.,
- 5. Create a test plan document for any application (e.g. Library Management System)
- 6. Test case for calculator in windows application
- 7. Write the test cases for ARMS Portal
- 8. Write the test cases for IRCTC Portal
- 9. Write the test cases for Swiggy Mobile application
- 10. Write the test cases for Flipcart Portal

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