Day 15 Assignment

1. Write a simple String program to take input from user
2. How do you concatenate two strings in Java? Give an example?
3. How do you find the length of a string in Java Explain with an example?
4. How do you compare two strings in Java? Give an Example
5. Write a program to find the length of the string "refrigerator".
6. Write a program to check if the letter 'e' is present in the word 'Umbrella'.
7. Write a program to delete all consonants from the string "Hello, have a good day".

1. Write a simple String program to take input from user

Ans:

```
import java.util.Scanner;
class Main
{
  public static void main(String[] args)
  {
    Scanner myObj = new Scanner(System.in);
    System.out.println("Enter Name: ");
    String name = myObj.nextLine();
    System.out.println("My name is: " +name);
  }
}
```

2. How do you concatenate two strings in Java? Give an example?

Ans: In Java, two strings can be concatenated by using the + or += operator, or through the concat() method, defined in the java. lang. String class.

```
// Example of concatenate two string
public class Main
{
        public static void main(String[] args)
        {
                String s1=new String("pw");
                s1=s1.concat("skill");
                System.out.println(s1);
        }
}
```

3. How do you find the length of a string in Java Explain with an example?

Ans:

```
public class Main {
        public static void main(String[] args)
        {
                String str = "PwSkill";
                System.out.println("The size of "+"the String is "+ str.length());
        }
```

```
}
```

4. How do you compare two strings in Java? Give an Example

Ans:

// Method 1: Result in either true or false

```
public class Main
{
  public static void main(String []args)
  {
    String s1 = "pwjava";
    String s2 = "pwjava";
    String s3 = new String ("PwJava");
    System.out.println(s1.equals(s2));
    System.out.println(s2.equals(s3));
  }
}
```

// Method 2: Result in the ascii difference of first odd characters of compared strings.

```
import java.util.Scanner;
public class Main
{
        public static int stringCompare(String str1, String str2)
        {
                int l1 = str1.length();
                int l2 = str2.length();
                int lmin = Math.min(l1, l2);
                for (int i = 0; i < lmin; i++)
                {
                        int str1_ch = (int)str1.charAt(i);
                        int str2_ch = (int)str2.charAt(i);
                        if (str1_ch != str2_ch)
                        {
                                return str1_ch - str2_ch;
                        }
                }
                if (l1 != l2) {
                        return l1 - l2;
                }
                else {
                        return 0;
                }
        }
        public static void main(String args[])
        {
      Scanner scan = new Scanner(System.in);
      System.out.print("Enter 1st string: ");
      String string1 = scan.nextLine( );
      System.out.print("Enter 2nd string: ");
```

```
        String string2 = scan.nextLine();
                System.out.println("Comparing b/w " + string1 + " and " + string2
                                                + " is " + stringCompare(string1, string2));
        }
}
```

5. Write a program to find the length of the string "refrigerator".

Ans:

```
import java.util.Scanner;
public class Main
{
  public static void main(String[] args)
  {
    String str;
    int len=0;
    Scanner scan = new Scanner(System.in);
    System.out.print("Enter the String: ");
    str = scan.nextLine();
    char[] strChars = str.toCharArray();
    for(char ch: strChars)
      len++;
    System.out.println("\nLength of String = " +len);
  }
}
```

6. Write a program to check if the letter 'e' is present in the word 'Umbrella'.

Ans:

```
import java.util.*;
class Main
{
        static void traverseString(String str)
        {
       System.out.print("iterate of string: ");
                for (int i = 0; i < str.length(); i++)
                {
                        System.out.print(str.charAt(i) + " ");
                }
System.out.println( );
if (str == "e")
   System.out.println("e is persent in "+str);
else
   System.out.println("e is absent in " +str);
        }
        public static void main(String[] args)
        {
                Scanner scan = new Scanner(System.in);
    System.out.print("Enter the String: ");
```

```
    String str = scan.nextLine();
                traverseString(str);
        }
}
```

7. Write a program to delete all consonants from the string "Hello, have a good day".

Ans:

```
import java.util.Scanner;
class Main
{
   public static void main(String args[])
   {
      String s;
      int j=0;
      System.out.println("Enter a string");
      Scanner so=new Scanner(System.in);
      s= so.nextLine();
      char ch[]=new char[20];
      for(int i=0;i<s.length();i++)
      {
         if(s.charAt(i)=='a'|| s.charAt(i)=='A'||s.charAt(i)=='e'|| s.charAt(i)=='E'||s.charAt(i)=='i'||
s.charAt(i)=='I'||s.charAt(i)=='o'|| s.charAt(i)=='O'||s.charAt(i)=='U'|| s.charAt(i)=='u')
          {
            ch[j++]=s.charAt(i);
          }
          else
            {
                continue;
             }
       }
       for(int i=0;i<j;i++)
         {
         System.out.print(ch[i]);
         }
       System.out.println();
   }
}
```