Que 1. WAP to initialize string by assigning value in program and display it

```
package Lab4;
public class Question1 {
  public static void main(String args[]) {
        String abc = "This is a string object";
     String bcd = new String("this is also string object");
     System.out.println(abc);
     System.out.println(bcd);
    }
}
```

OUTPUT:

```
This is a string object
this is also string object
```

Que 2.WAP to ask two string values from user and check if they are equal or not

```
package Lab4;
public class Question2 {
      public static void main(String[] args) {
            String s1="Satyam";
            String s2="Satyam";
            String s3=new String("Satyam");
            String s4="Sandeep";
            System.out.println(s1.equals(s2));//true
            System.out.println(s1.equals(s3));//true
            System.out.println(s1.equals(s4));//false

      }
}
```

OUTPUT:

```
true
true
false
```

Que 3. WAP to compare two strings

```
package Lab4;
public class Question3 {
```

```
        public static void main(String[] args) {
                String style = new String("Bold");
               String style2 = new String("Bold");
               if(style.equals(style2))
                  System.out.println("Equal");
               else
                  System.out.println("Not Equal");
        }
}
```

OUTPUT:

```
Equal
```

Que 4. WAP to print string character by character

```
package Lab4;
public class Question4 {
        public static void main(String[] args) {
                String string = "characters ";
       //Displays individual characters from given string
       System.out.println("Individual characters from given string: ");
       //Iterate through the string and display individual character
       for(int i = 0; i < string.length(); i++){
          System.out.print(string.charAt(i) + " ");
       }
        }
}
```

OUTPUT:

```
Individual characters from given string:
c h a r a c t e r s
```

Que 5. WAP to check if string is palindrome or not

```
package Lab4;

import java.util.Scanner;

public class Palindrome
{
```

```
    public static void main(String args[])
    {
        String a, b = "";
        Scanner s = new Scanner(System.in);
        System.out.print("Enter the string you want to check:");
        a = s.nextLine();
        int n = a.length();
        for(int i = n - 1; i >= 0; i--)
        {
            b = b + a.charAt(i);
        }
        if(a.equalsIgnoreCase(b))
        {
            System.out.println("The string is palindrome.");
        }
        else
        {
            System.out.println("The string is not palindrome.");
        }
    }
}
```

OUTPUT:

```
Enter the string you want to check:MADAM
The string is palindrome.
```

Que 6. WAP to count number of vowels and consonants in string

```
package Lab4;
public class CountVowelConsonant {
        public static void main(String[] args) {
        //Counter variable to store the count of vowels and consonant
        int vCount = 0, cCount = 0;
        //Declare a string
        String str = "This is a really simple sentence";
        //Converting entire string to lower case to reduce the comparisons
        str = str.toLowerCase();
```

```
        for(int i = 0; i < str.length(); i++) {
            //Checks whether a character is a vowel
            if(str.charAt(i) == 'a' || str.charAt(i) == 'e' || str.charAt(i) == 'i' ||
str.charAt(i) == 'o' || str.charAt(i) == 'u') {
                //Increments the vowel counter
                vCount++;
            }
            //Checks whether a character is a consonant
            else if(str.charAt(i) >= 'a' && str.charAt(i)<='z') {
                //Increments the consonant counter
                cCount++;
            }
        }
        System.out.println("Number of vowels: " + vCount);
        System.out.println("Number of consonants: " + cCount);
    }
}
```

OUTPUT:

```
Number of vowels: 10
Number of consonants: 17
```

Que 7. WAP to count number of words in given string

```
package Lab4;
public class CountNumberOfWordsInString {
        public static void main(String[] args) {
        String str = "welcome to java   tutorial on Java2blog";
        int count = 1;
        for (int i = 0; i < str.length() - 1; i++)
        {
            if ((str.charAt(i) == ' ') && (str.charAt(i + 1) != ' '))
            {
                count++;
            }
        }
        System.out.println("Number of words in a string : " + count);
    }
```

}

OUTPUT:

```
Number of words in a string : 6
```

Que 8. WAP to reverse word in given string

```
package Lab4;
public class Example {
	public void reverseWordInMyString(String str)
	  {
		/* The split() method of String class splits
		 * a string in several strings based on the
		 * delimiter passed as an argument to it
		 */
		String[] words = str.split(" ");
		String reversedString = "";
		for (int i = 0; i < words.length; i++)
		{
		  String word = words[i];
		  String reverseWord = "";
		  for (int j = word.length()-1; j >= 0; j--)
		   {
			/* The charAt() function returns the character
			 * at the given position in a string
			 */
			reverseWord = reverseWord + word.charAt(j);
		   }
		  reversedString = reversedString + reverseWord + " ";
		}
		System.out.println(str);
		System.out.println(reversedString);
	  }
	  public static void main(String[] args)
	  {
		Example obj = new Example();
		obj.reverseWordInMyString("Welcome to BeginnersBook");
```

```
        obj.reverseWordInMyString("This is an easy Java Program");
    }
}
```

OUTPUT:

```
Welcome to BeginnersBook
emocleW ot kooBsrennigeB
This is an easy Java Program
sihT si na ysae avaJ margorP
```
