Program-1: Write a program to count word frequencies in a given text

```
import java.util.Scanner;

public class Frequency_of_word {

   private String str;

   public void setStr(String str)
   {
      this.str = str;
   }


   public  void frequency_Of_Each(String unique_String)
   {
      String[] str_unique_arr=unique_String.split(" ");
      String[] normal_str_arr=str.split(" ");
      for (int i=0;i< str_unique_arr.length;i++)
      {
         int count=0;
         for (int j=0;j<normal_str_arr.length;j++)
         {
            if (str_unique_arr[i].equals(normal_str_arr[j]))
            {
               ++count;
            }
         }
         System.out.println("The frequency of ::" + str_unique_arr[i] + " ::  " +count);
      }
   }
   public  String  find_Unique()
   {
    String unique="";
    String[] str_arr=str.split(" ");
    for (int i=0;i<str_arr.length;i++)
    {
       if (check(str_arr[i],unique))
       {
          unique=unique+str_arr[i]+" ";
       }
    }
    return  unique;
   }
   public boolean check(String str,String str_unique)
   {
      boolean bol=true;
```

```
      String[] str_arr=str_unique.split(" ");
      for (int i=0;i<str_arr.length;i++)
      {
         if (str.equals(str_arr[i]))
         {
            bol=false;
         }
      }
      return bol;
   }
   public static void main(String[] args) {
      Scanner sc=new Scanner(System.in);
      Frequency_of_word ref=new Frequency_of_word();
      System.out.println("Enter a word of line: ");
      String st=sc.nextLine();
      ref.setStr(st);
          String unique =ref.find_Unique();
     ref.frequency_Of_Each(unique);
   }
}
```

Sample Output:

Enter a word of line:

he is a good good boy boy

Unique words are : he is a good boy

The frequency of ::he :: 1

The frequency of ::is :: 1

The frequency of ::a :: 1

The frequency of ::good :: 2

The frequency of ::boy :: 2

Program-2: Palindrome Checker

```
import java.util.Scanner;

public class Pallendrom_String {
   public  boolean check_Pallendrom(StringBuffer sb)
   {
      StringBuffer sb2 = new StringBuffer(sb).reverse();
      if (sb.toString().equals(sb2.toString()))
      {
         return true;
      }
      return  false;
```

```
    }
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        Pallendrom_String ref=new Pallendrom_String();
        System.out.println("Enter a string : ");
        StringBuffer str=new StringBuffer("");
        str.append(sc.nextLine());
        if (ref.check_Pallendrom(str))
        {
            System.out.println("Given string is pallendrom");
        }
        else
        {
            System.out.println("Given string is not pallendrom");
        }
    }
}
```

Sample Output:

Enter a string :

popkpop

Given string is Pallendrom

Program-2: Create a list of numbers, then write a program that prints the square of each number in the list

```
import java.util.ArrayList;

import java.util.List;


public class SquareNumbers {

    public static void main(String[] args) {

        List<Integer> numbers = new ArrayList<>();

        numbers.add(2);

        numbers.add(5);

        numbers.add(7);

        numbers.add(10);

        numbers.add(3);


        System.out.println("Original numbers: " + numbers);
```

```
        System.out.println("Squares of the numbers:");
        for (int number : numbers) {
            int square = number * number;
            System.out.println(square);
        }
    }
}
```

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Dt-14th Jan 2024