

49. Write a Java program to print Fibonacci series up to n terms

```
import java.util.Scanner;
public class Day9 {
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        System.out.println("Enter a value to print fibonacci series: ");
        int number=scan.nextInt();
        int num1=0 ,num2=1;
        System.out.println(num1);
        System.out.println(num2);
        for(int i=1;i<=number;i++){
            int num3=num1+num2;
            System.out.println(num3);
            num1=num2;
            num2=num3;
        }
    }
}
```

#### Trill ride

```
import java.util.Scanner;
public class Day9a {
    public static void main(String[] args) {
        Scanner scan=new Scanner (System.in);
        System.out.println("Enter age of the customer: ");
        int age=scan.nextInt();
        if(age<=15||age>=60){
            System.out.println("Not allowed: "+age);
        }
        else{
            System.out.println("Allowed: "+age);
        }
    }
}
```

#### Lucky lottery

```
import java.util.Scanner;
public class Day9b {
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        System.out.println("Enter ticket number: ");
        int ticket=scan.nextInt();
        int lastdigit=ticket%10;
        if(lastdigit==3||lastdigit==8){
            System.out.println("You are a Lucky winner: ");
        }
        else{
            System.out.println("Better luck next time: ");
        }
    }
}
```

### Find frequency of four

```
import java.util.Scanner;

public class lotteryd {
    public static void main(String[] args) {
        Scanner scan=new Scanner (System.in);
        System.out.println("Enter the number to find frequency of 4: ");
        int number=scan.nextInt();
        int fourcount=0;
        while(number!=0){
            int digit= number%10;
            if(digit==4){
                fourcount+=1;
            }
            number/=10;
        }
        System.out.println("Frequency of 4 is:"+fourcount);
    }
}
```

### Star pattern

```
import java.util.Scanner;

public class Day9d {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        System.out.println("Enter the value to print * pattern of n: ");
        int n=scan.nextInt();
        for(int i=1;i<=n;i++){
            for(int j=1;j<=i;j++){
                System.out.print("*");
            }
            System.out.println();
        }
    }
}
```

### Find number of letters in a string

```
import java.util.Scanner;

public class Day10 {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        System.out.println("Enter a string");
        String str=scan.nextLine();
        String words[]=str.split(" ");
        for(int i=0;i<words.length;i++){
            System.out.println("number of letters in:  "+words[i]+"  "+words[i].length());
        }
    }
}
```

### Star pattern

```
java.util.Scanner;
public class Day10a {
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        System.out.println("Enter value: ");
        int n=scan.nextInt();
        for(int i=n;i>=1;i--){
            for(int j=i;j>=1;j--){
                System.out.print("* ");
            }
            System.out.println();
        }
    }
}
```

65. Write a Java program to find total number of alphabets, digits or special character in a string.

```
import java.util.Scanner;
public class Day10b {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        System.out.println("Enter a string");
        String str = scan.nextLine();
        String words[] = str.split(" ");
        for (int i = 0; i < words.length; i++) {
            int account = 0;
            int ncount=0;
            int scount=0;
            String word = words[i];
            for (int j = 0; j < word.length(); j++) {
                char ch = word.charAt(j);
                if (ch >= 'a' && ch <= 'z' || ch >= 'A' && ch <= 'Z') {
                    account += 1;
                }
                else if (ch >= '0' && ch <= '9') {
                    ncount += 1;
                }
                else {
                    scount+=1;
                }
            }
            System.out.println(word+"Number of alphabets: "+account);
            System.out.println(word+"Number of numbers: "+ncount);
            System.out.println(word+"Number of special characters: "+scount);
        }
    }
}
```

63. Write a Java program to count total number of duplicate elements in an array.

```
import java.util.Scanner;
public class Day10c {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
```

```

System.out.println("Enter a string: ");
String str = scan.nextLine();
String words[] = str.split(" ");
for (int i = 0; i < words.length; i++) {
    int count = 0;
    for (int j = (i + 1); j < words.length; j++) {
        if (words[i].equals(words[j])) {
            count += 1;
            words[j] = " ";
        }
    }
    if (count >= 1 && words[i] != " ")
        System.out.println(" " + words[i]);
}
}

```

**Find even from the string**

```

public class Day10d {
    public static void main(String[] args) {
        int arr[]={1,2,3,4,5};
        for(int i=0;i<arr.length;i++){
            if(arr[i]%2==0){
                System.out.println("even: "+arr[i]);
            }
        }
    }
}

```

**11. WAP to print sum of even numbers and odd numebrs in the given array**

```

public class Day10e {
    public static void main(String[] args) {
        int arr[]={1,2,3,4,5};
        int esum=0;
        int osum=0;
        for(int i=0;i<arr.length;i++){
            if(arr[i]%2==0){
                esum+=arr[i];
            }
            else {
                osum+=arr[i];
            }
        }
        System.out.println("even: "+esum);
        System.out.println("odd: "+osum);
    }
}

```

**12. WAP to print values in even positions and values in odd positions**

```

public class Day10f {
    public static void main(String[] args) {
        int arr[]={1,2,3,4,5};
        for(int i=0;i<arr.length;i++){
            if(i%2==0){
                System.out.println("even poitions: "+arr[i]);
            }
            else {
                System.out.println("odd positions: "+arr[i]);
            }
        }
    }
}

```

#### Star parttern

```

import java.util.Scanner;
public class Day9d {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        System.out.println("Enter the value to print * pattern of n: ");
        int n=scan.nextInt();
        for(int i=1;i<=n;i++){
            for(int j=1;j<=i;j++){
                System.out.print("*");
            }
            System.out.println();
        }
    }
}

```

#### 14. WAP to find min and second min value in a given array.

```

import java.util.Scanner;
public class Day10h {
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        System.out.println("Enter length of array: ");
        int number =scan.nextInt();
        int arr[]=new int[number];
        System.out.println("Enter elements of array: ");
        for(int i=0;i<arr.length;i++){
            arr[i]=scan.nextInt();
        }
        int min=arr[arr.length-1];
        int smin=arr[arr.length-1];
        for(int j=0;j<arr.length;j++){
            if(min>arr[j]){
                smin=min;
                min=arr[j];
            }
            else if(smin>arr[j]){
                smin=arr[j];
            }
        }
    }
}

```

```

    }
    System.out.println("minimum value: "+min);
    System.out.println("second minimum value: "+smin);
}
}

```

54. Write a Java program to count total number of negative elements in an array

```

import java.util.Scanner;
public class Day10i {
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        System.out.println("Enter array length: ");
        int number=scan.nextInt();
        int inputarr[]=new int[number];
        System.out.println("Enter array elements: ");
        for(int i=0;i<inputarr.length;i++) {
            inputarr[i] = scan.nextInt();
        }
        for(int j=0;j<inputarr.length;j++){
            int pcount=0;
            int ncount=0;
            if(inputarr[j]>0){
                pcount+=1;
                int positivearr[]= new int[pcount];
                System.out.println("positive: "+positivearr[j]);
            }
            else if(inputarr[j]<0){
                ncount+=1;
                int negativearr[]=new int[ncount];
                System.out.println("negative: "+negativearr[j]);
            }
        }
    }
}

```

52. Write a Java program to find maximum and minimum element in an array

```

import java.util.Scanner;
public class Day10j {
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        System.out.println("Enter length of array: ");
        int number=scan.nextInt();
        int arr[]=new int[number];
        System.out.println("Enter elements of array: ");
        for(int i=0;i<arr.length;i++){
            arr[i]=scan.nextInt();
        }
        int max=0;
        int smax=0;
        for(int j=0;j<arr.length;j++){
            if(max<arr[j]){
                smax=max;
                max=arr[j];
            }
            else if(smax<arr[j]){
                smax=arr[j];
            }
        }
    }
}

```

```

    }
    System.out.println("maximum value: "+max);
    System.out.println("second maximum value: "+smax);
}
}

```

### 17. Combining of two arrays

```

import java.util.Scanner;
public class Day10k {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        System.out.println("Enter first array length: ");
        int length1 = scan.nextInt();
        System.out.println("Enter the elements of first array: ");
        int arr1[] = new int[length1];
        for (int i = 0; i < arr1.length; i++) {
            arr1[i] = scan.nextInt();
        }
        System.out.println("Enter second array length: ");
        int length2 = scan.nextInt();
        System.out.println("Enter the elements of second array: ");
        int arr2[] = new int[length2];
        for (int i = 0; i < arr2.length; i++) {
            arr2[i] = scan.nextInt();
        }
        int arr3[] = new int[arr1.length + arr2.length];
        int index3 = 0;
        for (int i = 0; i < arr1.length; i++) {
            arr3[index3] = arr1[i];
            index3++;
        }
        for (int i = 0; i < arr2.length; i++) {
            arr3[index3] = arr2[i];
            index3++;
        }

        System.out.println("Third array after combining array one and two: " + arr3[i]);
    }
}

```

### 18. Find unique word in each string word

```

import java.util.Scanner;
public class Day10l {
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        String str=scan.nextLine();
        String words[]=str.split(" ");
        for(int i=0;i<words.length;i++){
            String word=words[i];
            int charindex=0;
            for(int j=0;j<word.length();j++){
                char ch=word.charAt(j);
                if(ch!=word.charAt(charindex+1)){
                    System.out.println(word+" unique: "+ch);
                }
            }
        }
    }
}

```

}  
}  
}  
}  
}