Java Program Question and Answers
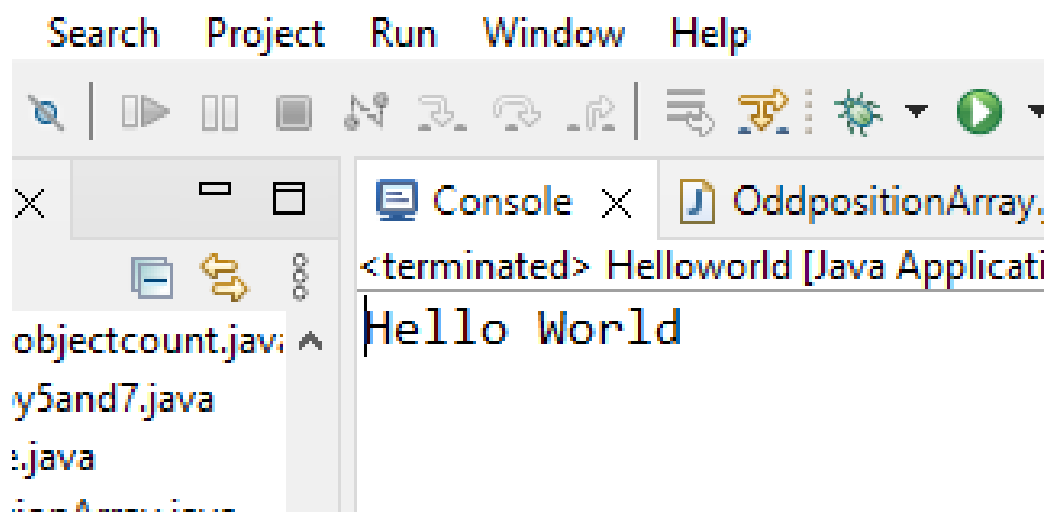
Q.1.Write a java program to print message "Hello Word".

Ans-

```java
package Assignments;

public class Helloworld {

    public static void main(String[] args) {
        System.out.println("Hello World");
    }

}
```

Output-

2.Write a java program to declare a number and check that number is even or odd.

Ans-

```java
package Assignments;

public class Numevenorodd {
    public void Evenorodd(int num){

        if(num % 2 == 0)
            System.out.println("The number is even"+num);
        else {

        System.out.println("The number is odd "+num);

        }
    }
    public static void main(String[] args) {
        Numevenorodd e1=new Numevenorodd();
        e1.Evenorodd(10);
        e1.Evenorodd(13);
        e1.Evenorodd(7);
        e1.Evenorodd(8);

    }

}
```
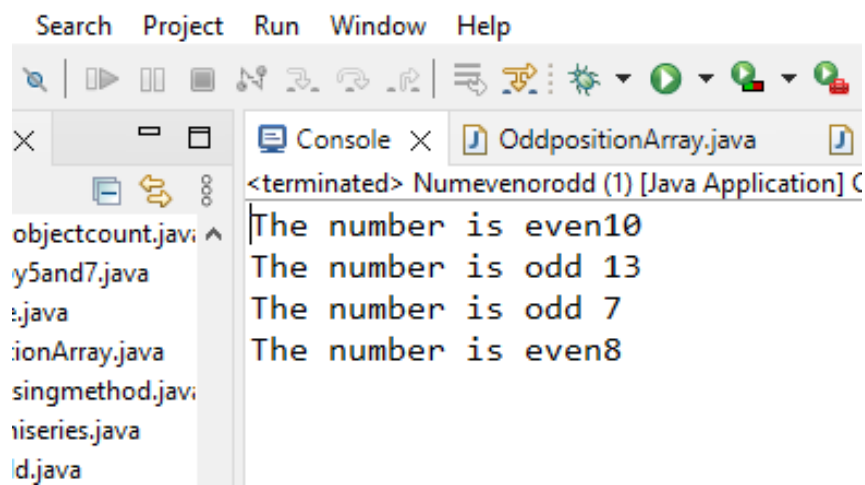
Output-

3. Write a java program to declare a number and check that number is Positive or Negative.

Ans-

```java
package Assignments;

public class Positiveornegative {

    public void positive(int number) {
        if(number > 0) {

            System.out.println("The number is positive");
        }
        else if(number==0) {

            System.out.println("The number is zero");
        }
        else {

            System.out.println("The number is negative");
        }
    }

    public static void main(String[] args) {
        Positiveornegative p1=new Positiveornegative();
        p1.positive(10);
        p1.positive(-11);
        p1.positive(0);

    }

}
```
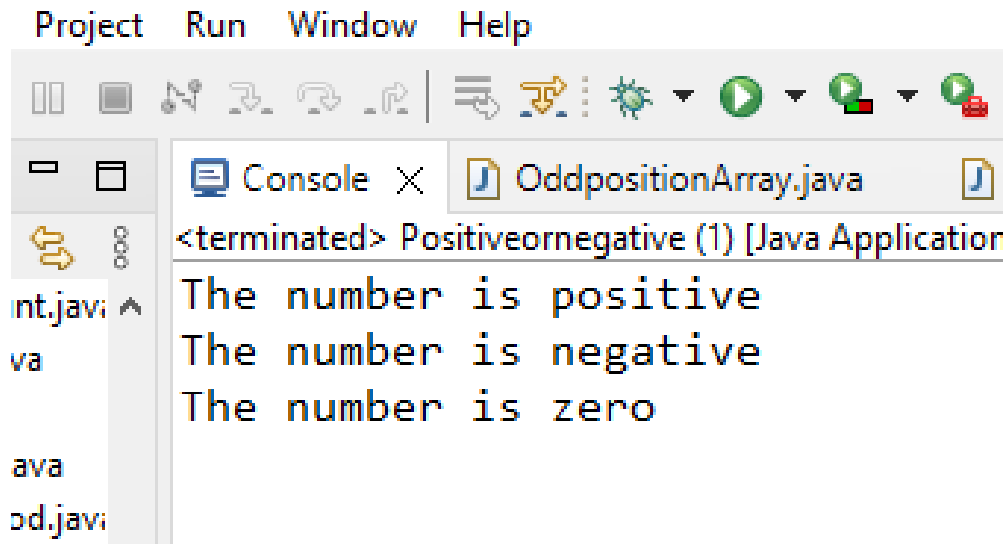**Output-**

The number is positive
The number is negative
The number is zero

Q.4. Write a java program to declare a number and check that number is prime or not.

Ans-

```java
package Assignments;

public class Primenummethod {

    public void primenumber(int num, boolean flag) {

        boolean  flag1 = false;
        for(int i=2; i<= num / 2;i++) {
            //condition for non prime number
            if(num % i== 0) {
                flag1=true;
                break;
            }
        }
        if(!flag1)
        System.out.println(num +"   is prime number "  );
        else
            System.out.println(num+"   is notprime number ");
    }
    public static void main(String[] args) {
```
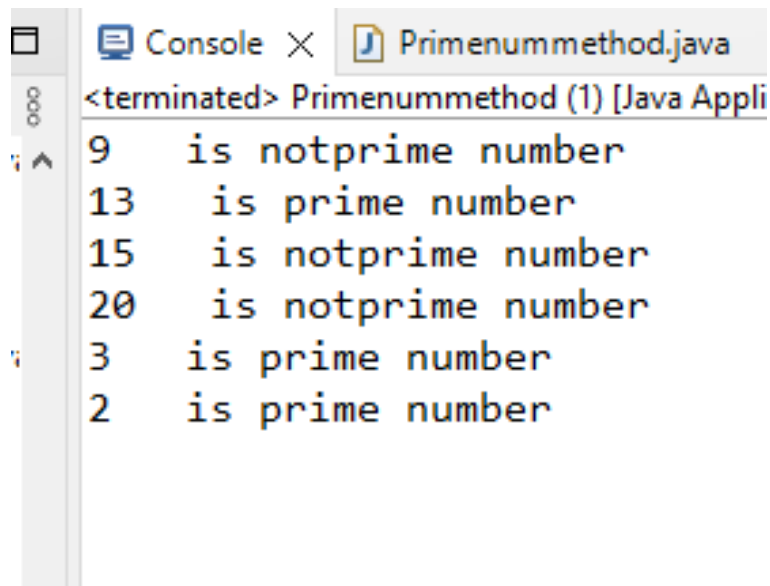
```
        Primenummethod p1=new Primenummethod();
        p1.primenumber(9, false);
        p1.primenumber(13, false);
        p1.primenumber(15, false);
        p1.primenumber(20, false);
        p1.primenumber(3, false);
        p1.primenumber(2, false);
    }
}
```

Output-

```
9     is notprime number
13     is prime number
15     is notprime number
20     is notprime number
3     is prime number
2     is prime number
```

Q.5. Write a java program to declare a number and check that number is perfect or not.

Ans-

```
package Assignments;
public class Perfectnumornot {

    public void perfect(int n)
    {
        int sum=0;
        for(int i=1;i<n;i++)
        {
            if(n%i==0)
```

```java
            {
                sum+=i;
            }
        }

            if (sum==n)
            {
            System.out.println(n+" Number is Perfect");
            }
            else
            {
            System.out.println(n+" Number is not Perfect");
            }
        }

    public static void main(String[] args) {
            Perfectnumornot p1=new Perfectnumornot();
            p1.perfect(6);
            p1.perfect(1256);
            p1.perfect(28);
            p1.perfect(8128);
            p1.perfect(3);
}
        }
```
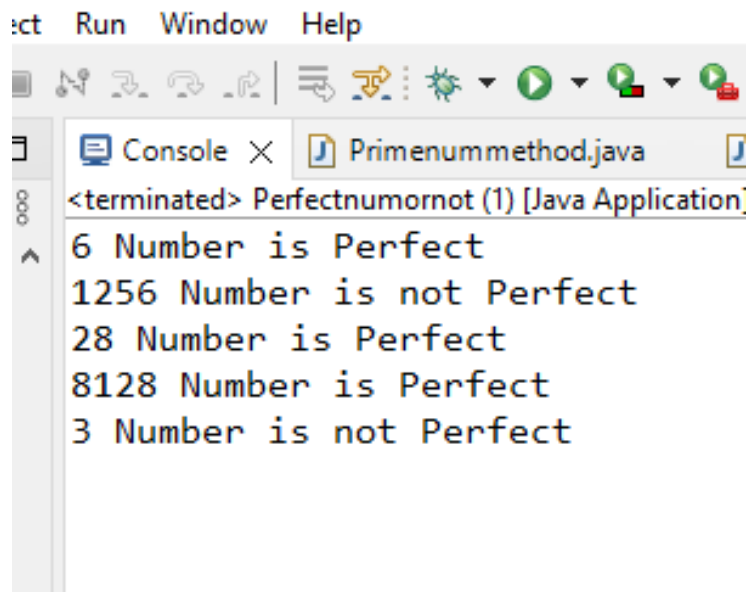
Output-

Console × Primenummethod.java

<terminated> Perfectnumornot (1) [Java Application]

6 Number is Perfect
1256 Number is not Perfect
28 Number is Perfect
8128 Number is Perfect
3 Number is not Perfect

Q.6. Write a java program to declare a number and check that number is Armstrong or not.

Ans-

```java
package Assignments;

public class Armstrong {

    public void Arm(int num)
    {
        int number,temp=0,total=0;
        number=num;
        for(;number !=0;number/=10)
        {
            temp= number%10;

            total= total +temp*temp*temp;
        }
        if(total == num)
        {
            System.out.println(num+" is Armstrong number");
        }
        else
        {
            System.out.println(num+ " is not Armstrong number");
        }

    }
    public static void main(String[] args) {
        Armstrong a1=new Armstrong();
        a1.Arm(370);
        a1.Arm(369);
        a1.Arm(3);
        a1.Arm(407);
    }

}
```
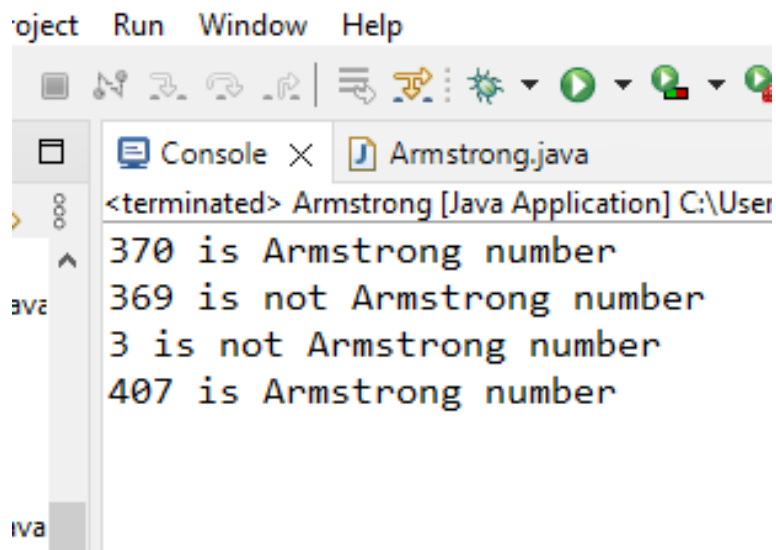**Output-**

Console ×   J Armstrong.java

<terminated> Armstrong [Java Application] C:\User

```
370 is Armstrong number
369 is not Armstrong number
3 is not Armstrong number
407 is Armstrong number
```

Q.7. Write a java program to declare a number and count the number of digit that number.

Ans-

```java
package Assignments;

public class Countdigitofnumber {
    public void Count(int n) {
        int count=0;
        for(;n!=0;n/=10,count++) {

        }
        System.out.println("Number of digits " +count);

    }

    public static void main(String[] args) {
        Countdigitofnumber c1=new Countdigitofnumber();
        c1.Count(12345);
        c1.Count(1);
        c1.Count(45);
```
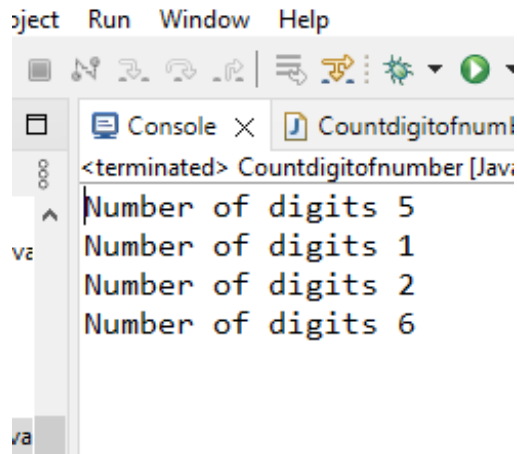
```
        c1.Count(123456);
    }

}
```

Output-

Q.8. Write a java program to declare a number and reverse the no using for loop.

Ans-

```java
package Assignments;

public class Reversenumberusingforloop {

    public void  Reversenum(int num) {
        int Reverse = 0;

        for(;num!=0;num/=10) {
            int digit = num %10;
            Reverse=Reverse*10+digit;
        }
        System.out.println("Reverse number " +Reverse);

    }
```
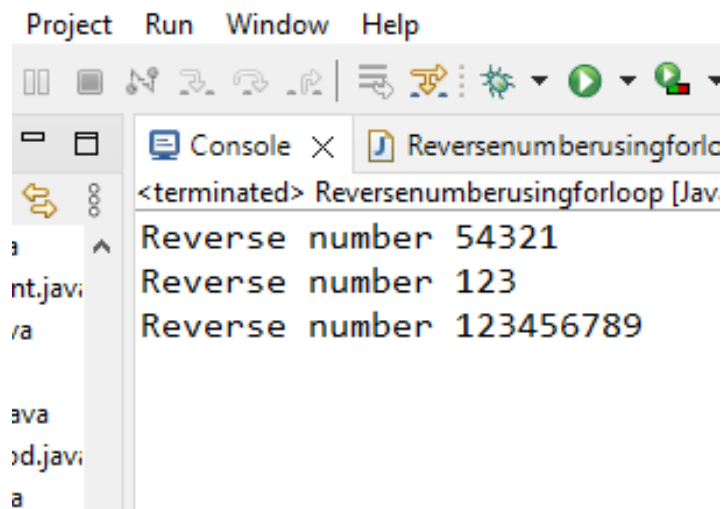
```
        public static void main(String[] args) {
                Reversenumberusingforloop r1=new
Reversenumberusingforloop();
                r1.Reversenum(12345);
                r1.Reversenum(321);
                r1.Reversenum(987654321);
        }

}
```
Output-

Project   Run   Window   Help

Console ×   Reversenumberusingforlc

\<terminated\> Reversenumberusingforloop [Jav.

Reverse number 54321
Reverse number 123
Reverse number 123456789

Q.9. Write a java program to declare a number and reverse the no using while loop.

Ans-

```
package Assignments;

public class Reversenumberusingwhileloop {
        public void  Reversenum(int num) {
                int Reverse = 0;

                while(num!=0)
                {
                        int digit = num %10;
```

```java
                Reverse=Reverse*10+digit;
                num/=10;
        }
        System.out.println("Reverse number " +Reverse);

    }

    public static void main(String[] args) {
            Reversenumberusingforloop r1=new
Reversenumberusingforloop();
            r1.Reversenum(12345);
            r1.Reversenum(321);
            r1.Reversenum(987654321);
            r1.Reversenum(123);
    }

}
```
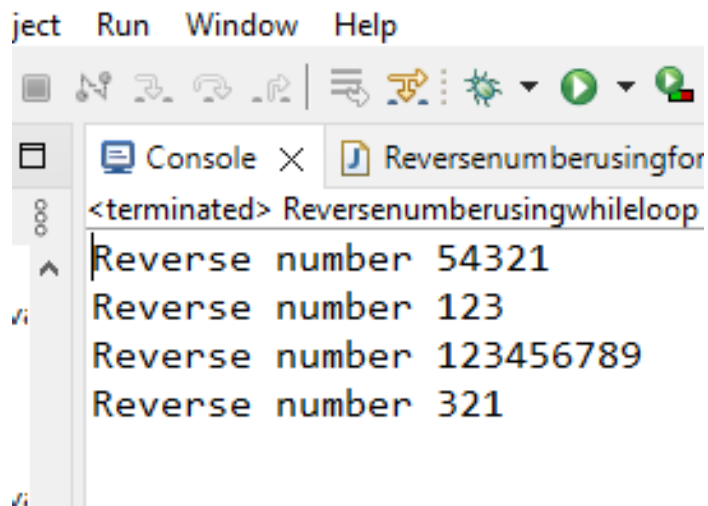
Output-

Q.10. Calculate cube and square of user enter number

Ans-

```java
package Assignments;
```

```java
public class Cubeandsquare {

    public void Cube(int a) {
        int volume=a*a*a;
        System.out.println(""
                + "Cube is "+volume);

    }
    public void Square(int a) {
        int sq=a*a;
        System.out.println("Square is "+ sq);
    }

    public static void main(String[] args) {
        Cubeandsquare c1=new Cubeandsquare();
        c1.Cube(2);
        c1.Cube(5);
        c1.Cube(4);
        c1.Cube(6);
        System.out.println(" ");
        Cubeandsquare s1=new Cubeandsquare();
        s1.Square(2);
        s1.Square(4);

    }

}
```
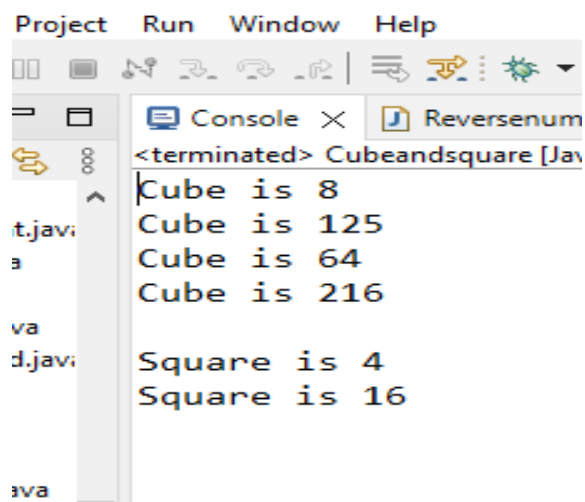
Output-


```
Project   Run   Window   Help

        Console  ✕    Reversenum
<terminated> Cubeandsquare [Jav
Cube is  8
Cube is  125
Cube is  64
Cube is  216

Square is 4
Square is 16
```

Q.11. Write a program to display the multiplication table.

Ans-

```java
package Assignments;

public class Multiplicationtablefixnumber {

    public static void main(String[] args) {
        int num=5;
        for(int i=1;i<=10;i++)
        {
            System.out.printf("%d*%d=%d\n",num,i,num*i);

        }
    }

}
```
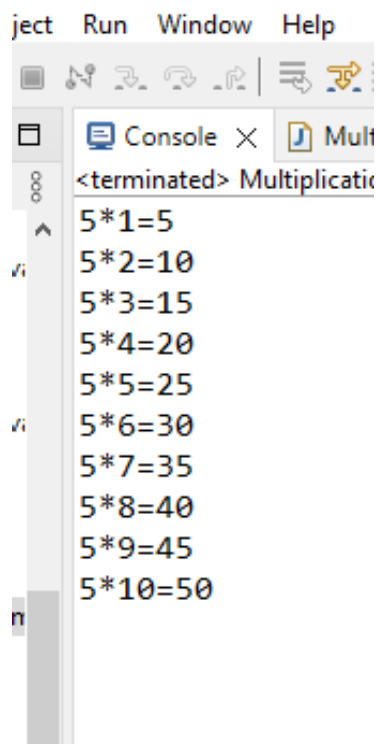
Output-


```
ject  Run  Window  Help

Console X   J Mult
<terminated> Multiplicatic
5*1=5
5*2=10
5*3=15
5*4=20
5*5=25
5*6=30
5*7=35
5*8=40
5*9=45
5*10=50
```

Q.12. Declare input and display the multiplication table for the input.

Ans-
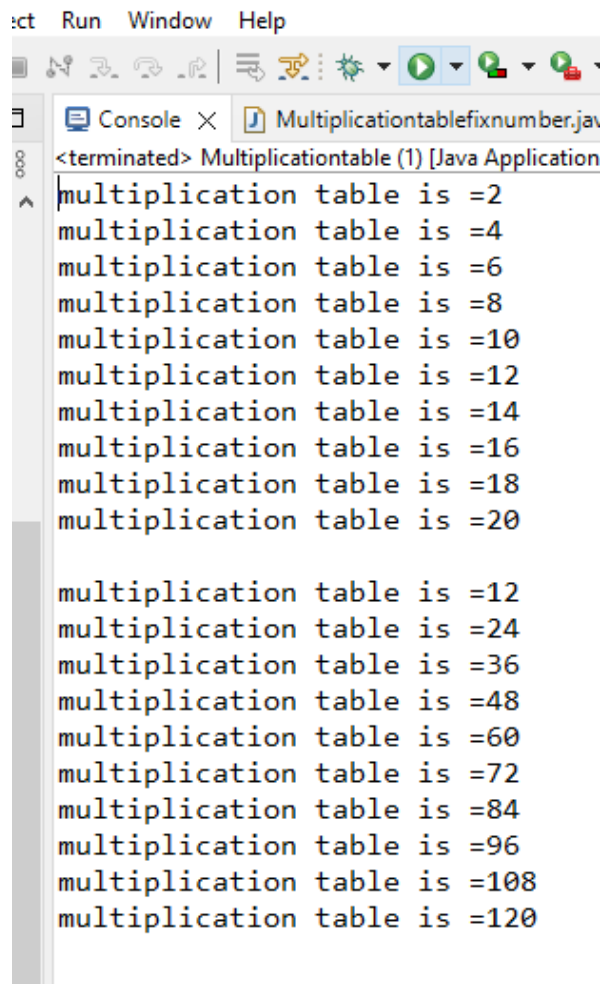
```java
package Assignments;

public class Multiplicationtable {

    public void multitable(int num) {
        int i, result;
        for(i=1;i<=10;i++){
            result = i*num;
        System.out.println("multiplication table is ="+ result);
        }
    }
    public static void main(String[] args) {
        Multiplicationtable m1=new Multiplicationtable();
        m1.multitable(2);
        System.out.println(" ");
        m1.multitable(12);
    }

}
```

Output-

```
Console  ×    Multiplicationtablefixnumber.jav
<terminated> Multiplicationtable (1) [Java Application
multiplication table is =2
multiplication table is =4
multiplication table is =6
multiplication table is =8
multiplication table is =10
multiplication table is =12
multiplication table is =14
multiplication table is =16
multiplication table is =18
multiplication table is =20

multiplication table is =12
multiplication table is =24
multiplication table is =36
multiplication table is =48
multiplication table is =60
multiplication table is =72
multiplication table is =84
multiplication table is =96
multiplication table is =108
multiplication table is =120
```

Q.13. Declare number and check it is palindrome or not.

Ans-

package Assignments;

public class Palindromenum {
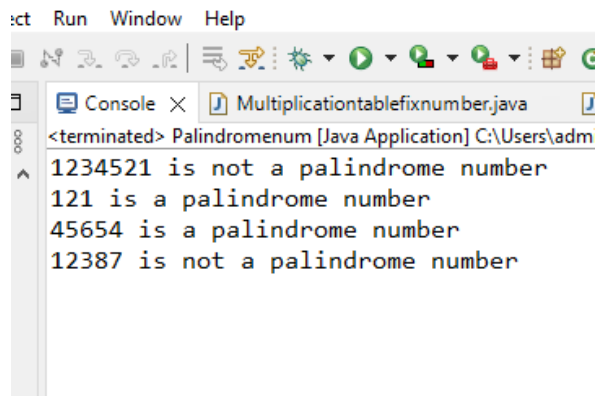
    public void Pali(**int** n)
    {
        int rev=0 ,rem,temp;
        temp=n;
        for(;n!=0;n/=10)
        {

```
                rem=n%10;
                rev=rev*10+rem;
        }
        if(temp==rev)
                System.out.println(temp+ " is a palindrome number");
        else
                System.out.println(temp+" is not a palindrome
number");
        }
    public static void main(String[] args) {
            Palindromenum p1=new Palindromenum();
            p1.Pali(1234521);
            p1.Pali(121);
            p1.Pali(45654);
            p1.Pali(12387);
        }

}
```

Output-

Q.14. Write a java program to find area of triangle.

Ans-

```
package Assignments;

public class Areaoftriangle {

    public void triangle(int base, int height) {
        int  result=(base*height)/2;
```

```java
        System.out.println("Area of triangle is ="+result);
    }
    public static void main(String[] args) {
        Areaoftriangle a1=new Areaoftriangle();
        a1.triangle(10, 10);
    }

}
```

Output-
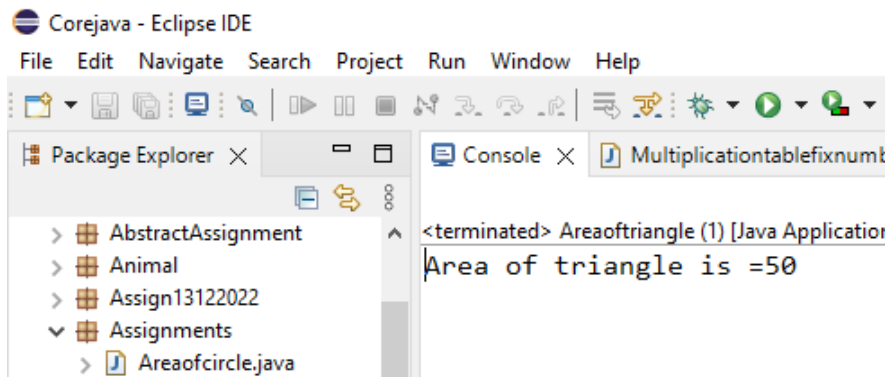
Q.15. Write a java program to find area of circle.

Ans-

```java
package Assignments;

public class Areaofcircle {

    public void circle(int r ) {
        float   areaofcircle=(float)3.14*r*r;
        System.out.println("Areaofcircle is "+areaofcircle);

    }
    public static void main(String[] args) {
        Areaofcircle c1=new Areaofcircle();
        c1.circle(12);
        System.out.println(" ");
        c1.circle(10);
    }

}
```

Output-


```
t  Run  Window  Help

  Console ×    Areaofcircle.java
<terminated> Areaofcircle (1) [Java Applic
Areaofcircle is 452.16

Areaofcircle is 314.0
```
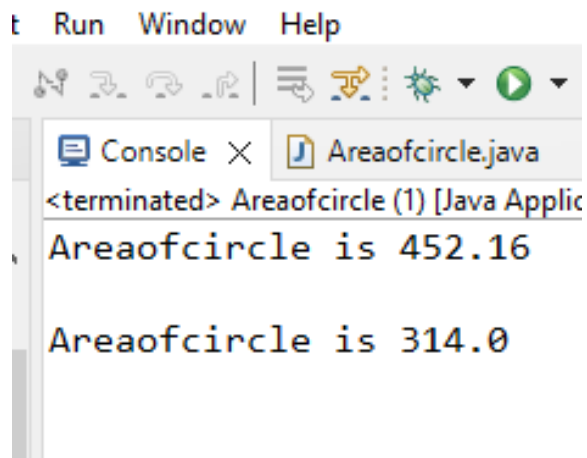
Q.16. Write a java program to find area of rectangle.

Ans-

```java
package Assignments;

public class Areaofreactangle {

    public void React(int length,int breadth) {
        int area=length*breadth;
        System.out.println("area of reactange is  "+area);
    }

    public static void main(String[] args) {
        Areaofreactangle a1=new Areaofreactangle();
        a1.React(10, 10);
        a1.React(4, 5);
    }

}
```
**Output-**

Corejava - Eclipse IDE

File   Edit   Navigate   Search   Project   Run   Window   Help

Package Explorer ✕

> AbstractAssignment
> Animal
> Assign13122022

Console ✕   Areaofreactangle.java

<terminated> Areaofreactangle [Java Application] C:\U
area of reactange is   100
area of reactange is   20
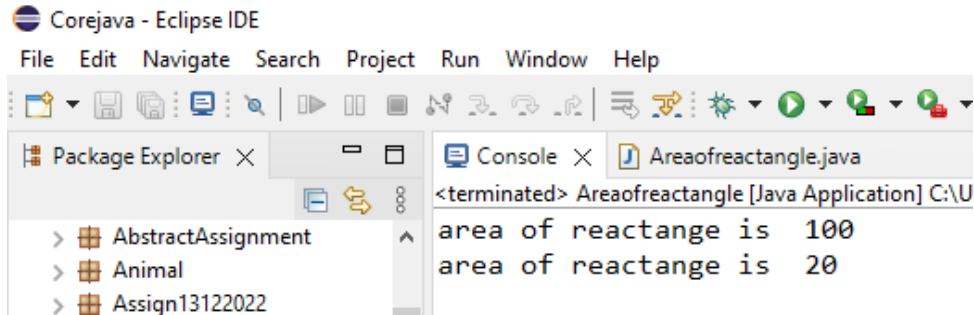
Q.17. Declare age and check whether user is eligible for voting or not.

Ans-
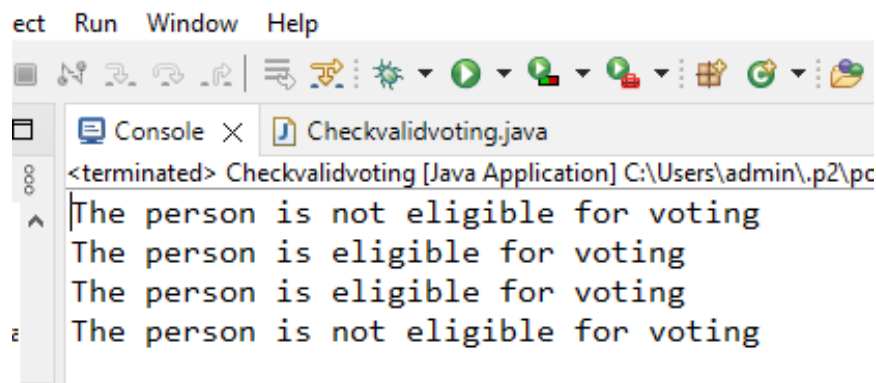
```java
package Assignments;

public class Checkvalidvoting {

    public void Vote(int age) {
        if(age>=18)
            {
            System.out.println("The person is eligible for voting ");
            }
            else
            {
                System.out.println("The person is not eligible for voting ");

            }
    }
    public static void main(String[] args) {
            Checkvalidvoting v1=new Checkvalidvoting();
            v1.Vote(17);
            v1.Vote(18);
            v1.Vote(19);
            v1.Vote(10);
    }

}
```
Output-

Console ✕   Checkvalidvoting.java

\<terminated> Checkvalidvoting [Java Application] C:\Users\admin\.p2\pc

```
The person is not eligible for voting
The person is eligible for voting
The person is eligible for voting
The person is not eligible for voting
```

Q.18. Write a java program to check whether a number is divisible by 5 and 7 or not.

Ans-

```java
package Assignments;

public class Divisibleby5and7 {

    public void Div(int num) {
        if((num%5==0)&&(num%7==0))
        {
            System.out.println("The number is divisible by 5 and 7");
        }
        else
        {
            System.out.println("The number is not divisible by 5 and 7");
        }
    }
    public static void main(String[] args) {
        Divisibleby5and7 d1=new Divisibleby5and7();
        d1.Div(35);
        d1.Div(42);
        d1.Div(140);
    }

}
```
Output-

Package Explorer ×

> Areaofcircle.java
> Areaofreactangle.java
> Areaoftriangle.java
> Arithmeticoperations.java

Console ×   Divisibleby5and7.java

<terminated> Divisibleby5and7 [Java Application] C:\Users\admin\.p2\pod

```
The number is divisible by 5 and 7
The number is not divisible by 5 and 7
The number is divisible by 5 and 7
```
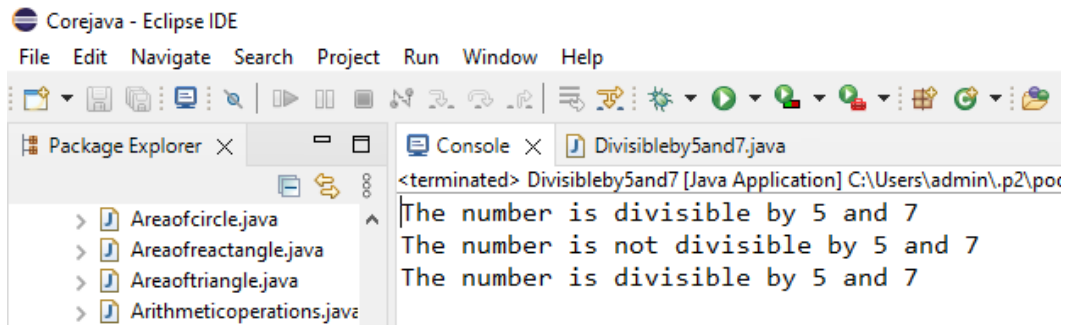
Q.19. Swap two number using third variable.

Ans-

```java
package Assignments;

public class Swaptwonumusingvari {

    public static void main(String[] args) {
        int first=10,second=20;
        System.out.println("Before swap");
        System.out.println(" ");
        System.out.println("First Number "+first);
        System.out.println("Second Number "+second);
        System.out.println(" ");


        int temp=first;
        first=second;
        second=temp;
        System.out.println("After the swap");
        System.out.println(" ");
        System.out.println("First Number "+first);
        System.out.println("Second Number "+second);


    }

}
```
Output-

Package Explorer ×

Console ×   Swaptwonu

<terminated> Swaptwonumusing

> Divisibleby5and7.java   Before swap
> Employee.java
> EvenpositionArray.java   First Number 10
> factorialusingmethod.java   Second Number 20
> fibonacchiseries.java
> Helloworld.java   After the swap
> Largestnumber.java
> Multiplicationtable.java   First Number 20
> Multiplicationtablefixnun   Second Number 10
> Numevenorodd.java

Q.20. Swap two number without using third variable.

Ans-

```java
package Assignments;

public class Swaptwonumwithoutthirdvar {

    public void Swap(int x,int y) {
        System.out.println("Before swap");
        System.out.println("");

        System.out.println("value of x is "+x);
        System.out.println("value of y is "+y);

            x=x+y;
            y=x-y;
            x=x-y;
            System.out.println("");
            System.out.println("After swap");

            System.out.println("value of x is "+x);
            System.out.println("value of y is "+y);
    }

    public static void main(String[] args) {
            Swaptwonumwithoutthirdvar s1=new
Swaptwonumwithoutthirdvar();
```

```
        s1.Swap(10, 20);
        s1.Swap(50, 60);

    }

}
```

Output-

Project Run Window Help

Console ×   Swaptwonu

<terminated> Swaptwonumwitho

```
Before swap

value of x is 10
value of y is 20

After swap
value of x is 20
value of y is 10
Before swap

value of x is 50
value of y is 60

After swap
value of x is 60
value of y is 50
```

Q.21. Check greater no between three no.

Ans-

```
package Assignments;

public class Largestnumber {

    public void largest(int num1, int num2, int num3) {
```

```java
        if(num1 >= num2 && num1 >= num3)
        {
                System.out.println("largest number is = " + num1);
        }
        else if(num2 >= num1  && num2 >= num3)
        {
            System.out.println("largest number is = " + num2);
        }
        else
        {
            System.out.println("largest number is = " + num3);
        }
    }
    public static void main(String[] args) {
            Largestnumber l1=new Largestnumber();
            l1.largest(100, 20, 60);
    }

}
```
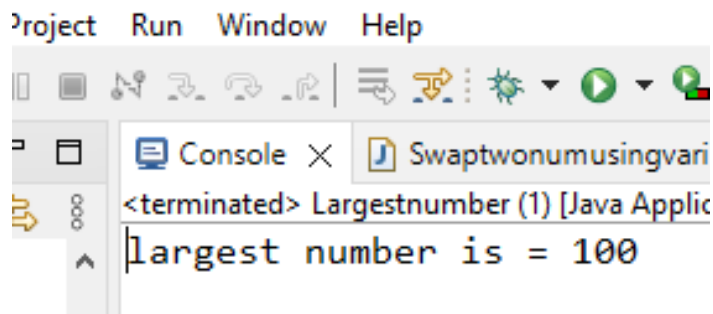
Output-

Q.22. Display the Fibonacci series.

Ans-

```java
package Assignments;

public class fibonacchiseries {

    public void fibonacci(int f) {
      int  no1,no2,no3;
```

```java
        no1=0;
    no2=1;
    System.out.println(no1+"\n"+no2);

    for(int i=2;i<=f;i++) {

        no3=no1+no2;
        System.out.println(no3);
        no1=no2;
        no2=no3;
    }
    }
    public static void main(String[] args) {
        fibonacchiseries f1=new fibonacchiseries();
        f1.fibonacci(10);
    }

}
```
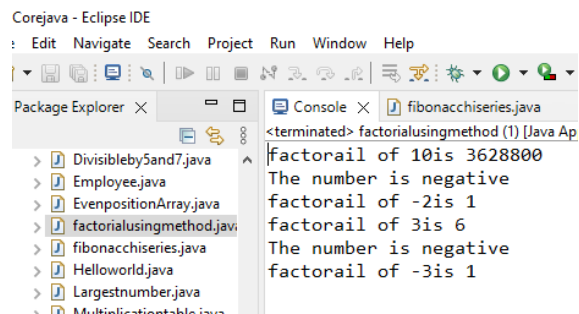
Output-

Q.23. Find factorial of the given no.

Ans-

```java
package Assignments;


public class factorialusingmethod {
        public void factorail(int num) {
                int i,fact=1;
                if(num<=0)
                        System.out.println("The number is negative ");
                else {
                        for(i=1;i<=num;i++)
                                fact*=i;
                }

        System.out.println("factorail of "+num +"is "+fact);

    }
    public static void main(String[] args) {
            factorialusingmethod d1=new factorialusingmethod();
            d1.factorail(10);
            d1.factorail(-2);
            d1.factorail(3);
            d1.factorail(-3);
    }

}
```

Output-

Corejava - Eclipse IDE

: Edit Navigate Search Project Run Window Help

Package Explorer ×

Console ×   fibonacchiseries.java

\<terminated\> factorialusingmethod (1) [Java Ap

> Divisibleby5and7.java
> Employee.java
> EvenpositionArray.java
> factorialusingmethod.java
> fibonacchiseries.java
> Helloworld.java
> Largestnumber.java
> Multiplicationtable.java

```
factorail of 10is 3628800
The number is negative
factorail of -2is 1
factorail of 3is 6
The number is negative
factorail of -3is 1
```

Q.24. Print the following pattern

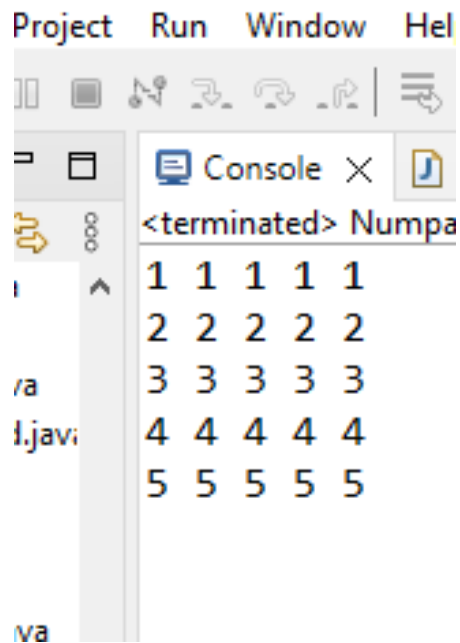**1 1 1 1**

Ans-

```
package Assignments;

public class NumpatternQ24 {

    public static void main(String[] args) {
        int n=5;
        for(int i=1;i<=n;i++) {
            for(int j=1;j<=n;j++) {
                System.out.print(i + " ");
            }
            System.out.println(" ");

    }
    }}
```

Output-

Console ×

<terminated> Numpa

```
1 1 1 1 1
2 2 2 2 2
3 3 3 3 3
4 4 4 4 4
5 5 5 5 5
```

va

d.java

va

Q.25. Print the following pattern.

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```

Ans-

```java
package Assignments;

public class NumpatternQ25 {

    public static void main(String[] args) {
        int n=5;
        for(int i=1;i<=n;i++) {
            for(int j=1;j<=i;j++) {
                System.out.print(i);
            }
            System.out.println(" ");
```

```
        }
            }
}
```
Output-

Q.26. Print the following pattern.

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

Ans-

```
package Assignments;

public class NumpatternQ26 {

    public static void main(String[] args) {
        int n=5;
        for(int i=1;i<=n;i++) {
            for(int j=1;j<=i;j++) {
                System.out.print(j);
            }
            System.out.println(" ");
        }
    }
}
```
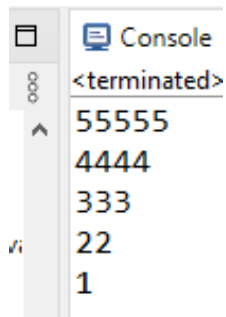**Output-**

```
1
12
123
1234
12345
```

Q.27.Print the following pattern.

```
5 5 5 5 5
4 4 4 4
3 3 3
2 2
1
```

Ans-

```java
package Assignments;

public class NumpatternQ27 {
    public static void main(String[] args) {
        int n=5;
        for(int i=n;i>=1;i--) {
            for(int j=1;j<=i;j++) {
                System.out.print(i);
            }
            System.out.println(" ");
        }
    }
}
```
Output-

Q.28.Print the following pattern.
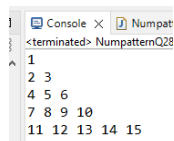
1

2 3

4 5 6

7 8 9 10

11 12 13 14 15

Ans-

package Assignments;

public class NumpatternQ28 {

    public static void main(String[] args) {
        int n=5,k=1;
        for(int i=1;i<=n;i++) {
            for(int j=1;j<=i;j++) {
                System.*out*.print(k+" ");
                k++;
            }
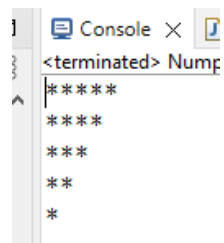   System.*out*.println(" ");
        }
    }

}

Output-

Q.29.Print the pattern

```
* * * * *
* * * *
* * *
* *
*
```

Ans-

```java
package Assignments;

public class NumpatternQ29 {
    public static void main(String[] args) {
        int n=5;
        for(int i=n;i>=1;i--) {
            for(int j=1;j<=i;j++) {
                System.out.print("*");
            }
            System.out.println(" ");
        }
    }
}
```

Output-


```
<terminated> Nump
*****
****
***
**
*
```

Q.30.Print the pattern.

```
* * * * *
 * * * *
  * * *
   * *
```

*

Ans-

```java
package Assignments;

public class NumpatternQ30 {

    public static void main(String[] args) {
        int n = 5;
        for (int i = n; i >= 1; i--) {

            for (int j = n; j > i; j--) {
                System.out.print(" ");
            }

            for (int k = 1; k <= i; k++) {
                System.out.print("*");
            }

            System.out.println("");
        }
    }
}
```
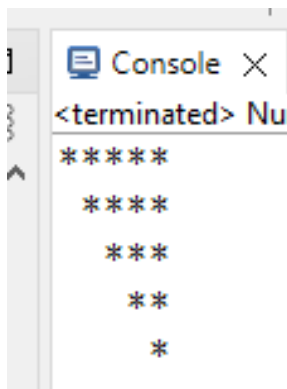
Output-


```
Console ×
<terminated> Nu
*****
 ****
  ***
   **
    *
```

Q.31. Declare the array and print that array.

Ans-

```java
package DemoAbstract;

public class Testarray {
```
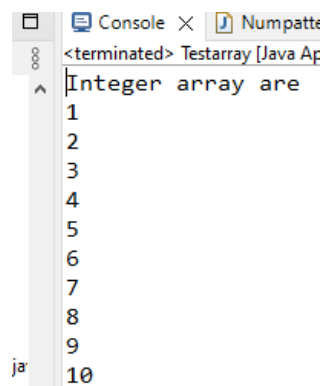
```
    public void array() {
    int arr[]=new int[10];
    arr[0]=1;
    arr[1]=2;
    arr[2]=3;
    arr[3]=4;
    arr[4]=5;
    arr[5]=6;
    arr[6]=7;
    arr[7]=8;
    arr[8]=9;
    arr[9]=10;

    System.out.println("Integer array are ");
            for(int i:arr) {
                System.out.println(i);
            }
            System.out.println(" ");
}
public static void main(String[] args) {
        Testarray t1=new Testarray();
        t1.array();
    }

}
```

Output-

```
Console ×   Numpatte
<terminated> Testarray [Java Ap
Integer array are
1
2
3
4
5
6
7
8
9
10
```
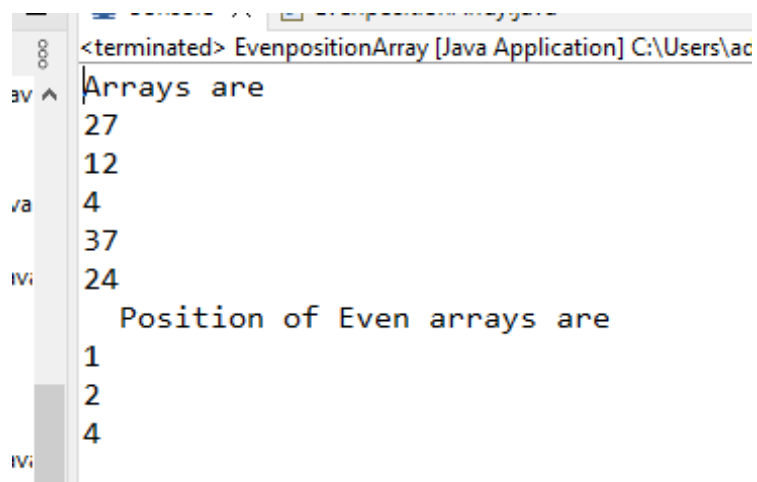
Q.32. Declare the array print only even position element of the array.

Ans-

```java
package Assignments;


public class EvenpositionArray {
        public void array() {
                System.out.println("Arrays are ");
                int []array= {27,12,4,37,24};
                for(int i=0;i<array.length;i++)
                        System.out.println(array[i]);

        System.out.println("  Position of Even arrays are ");
                for(int i=0;i<array.length;i++)
                        if(array[i]%2==0)
                {
                        System.out.println(i);
                }
        }

    public static void main(String[] args) {
                EvenpositionArray t1=new EvenpositionArray();
                t1.array();
        }

    }
}
```

Output-


```
<terminated> EvenpositionArray [Java Application] C:\Users\ac
Arrays are
27
12
4
37
24
   Position of Even arrays are
1
2
4
```

Q.33. Declare the array print only odd position element of the array.

Ans-

```java
package Assignments;

public class OddpositionArray {
    public void array() {
        int array[]={23,13,135,20};
        System.out.println("Arrays are");

        for(int i=0;i<array.length;i++){

            System.out.println(array[i]);
        }
        System.out.println(" ");

        System.out.println(" Odd Position of array are ");
        for(int i=0;i<array.length;i++){
            if(array[i]%2==1)
            System.out.println(i);
        }
        System.out.println(" ");
    }

    public static void main(String[] args) {
        OddpositionArray o1=new OddpositionArray();
        o1.array();
    }

}
```
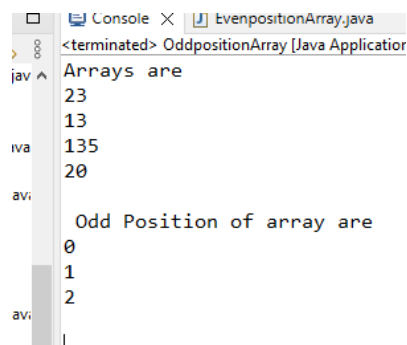
Output-

Q.34. Declare the array print only even element from the array.

Ans-

```java
package Assignments;

public class EvenElementArray {
    public void Array() {
        System.out.println("Array of element are");
        int []array= {1,2,3,4,5,6,7,8,9};
        for (int element:array) {
            System.out.println(element);
        }
        System.out.println(" ");
        System.out.println("Even Element of array are");
        for (int element:array) {
            if(element%2==0)

                System.out.println(element);
        }
    }

    public static void main(String[] args) {
        EvenElementArray e1=new EvenElementArray();
        e1.Array();
    }

}
```

Output-
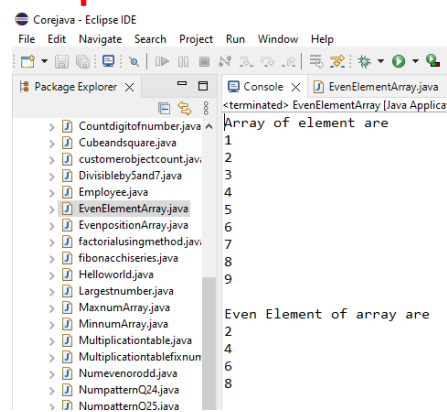
Q.35. Declare the array print only odd element from the array.

Ans-
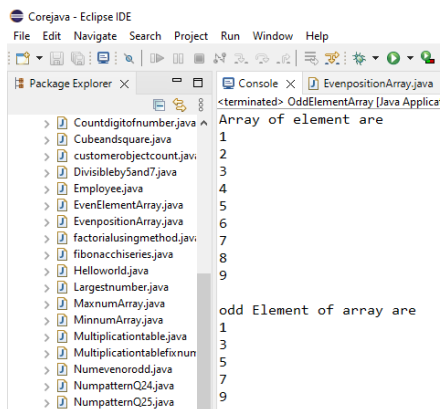
```java
package Assignments;

public class OddElementArray {

    public void Array() {
        int []array= {1,2,3,4,5,6,7,8,9};
        System.out.println("Array of element are");
        for (int element:array) {
            System.out.println(element);
        }
        System.out.println(" ");
        System.out.println("odd Element of array are");
        for (int element:array) {
            if(element%2!=0)

            System.out.println(element);
        }
    }

    public static void main(String[] args) {
        OddElementArray g1=new OddElementArray();
        g1.Array();
    }

}
```

Output-

Q.36 Declare array and print total sum of the element using for.

Ans-

```java
package Assignments;

public class SumtotalArrayElementusingFor {
    public void SumArray() {
        int[]array= new int[]{1,2,3,4,5,6,7};
        int sum=0;
        System.out.println("Array element is ");

        for (int i=0;i<array.length;i++) {


            System.out.println(array[i]);
        }
        for (int i=0;i<array.length;i++) {
            sum=sum+array[i];

        }

            System.out.println("Total sum of array element is : "+sum);

    }

    public static void main(String[] args) {
        SumtotalArrayElementusingFor e1=new SumtotalArrayElementusingFor();
        e1.SumArray();
    }


}
```

Output-

Corejava - Eclipse IDE

File   Edit   Navigate   Search   Project   Run   Window   Help

Package Explorer ×

Console ×   EvenElementArray.java   Sumtota

<terminated> SumtotalArrayElementusingFor [Java Applicatio

> Helloworld.java
> Largestnumber.java
> MaxnumArray.java
> MinnumArray.java
> Multiplicationtable.java
> Multiplicationtablefixnun
> Numevenorodd.java
> NumpatternQ24.java
> NumpatternQ25.java
> NumpatternQ26.java
> NumpatternQ27.java

Array element is
1
2
3
4
5
6
7
Total sum of array element is : 28

Q.37. Declare array and print total sum of the element using for each.

Ans-

```java
package Assignments;

public class SumtotalArrayElementusingForEach {

    public void SumArray() {
        int[]array= new int[]{1,2,3,4,5,6};
        int sum=0;
        System.out.println("Array element is ");

        for (int num:array) {

            System.out.println(num);
        }
        for (int num:array) {
            sum=sum+num;
        }
            System.out.println("Total sum of array element is : "+sum);

    }

    public static void main(String[] args) {
        SumtotalArrayElementusingForEach s1=new SumtotalArrayElementusingForEach();
        s1.SumArray();
    }

}
```
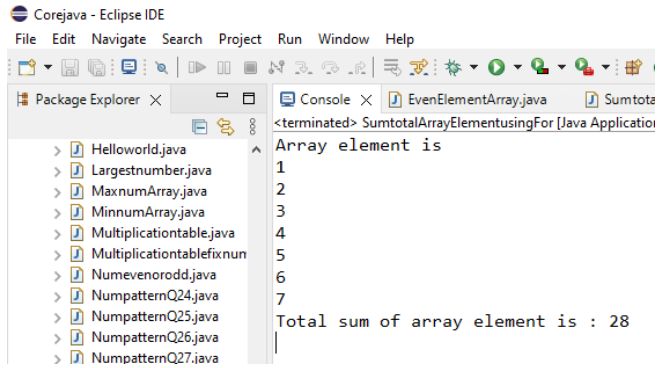
Output-
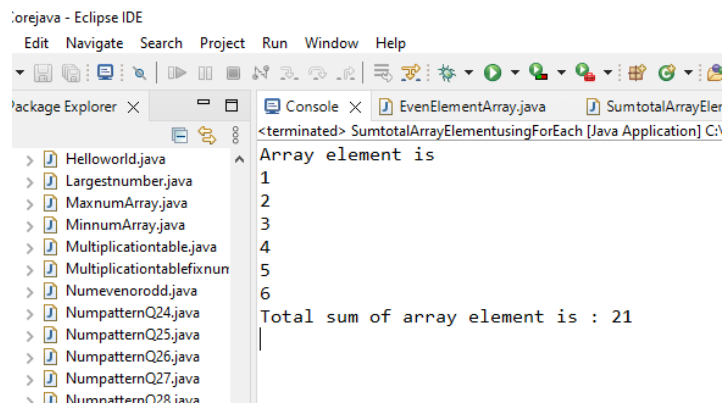
Q.38. Declare array and reverse the array.

Ans-

```java
package Assignments;

public class ReverseArray {
    public void reverse() {
        int []array=new int[]{1,2,3,4,5};
        System.out.println("Orignal array");
        for(int i=0;i<array.length;i++) {
            System.out.println(array[i]);
        }
        System.out.println("Array After reverse");
        for(int i=array.length-1;i>=0;i--) {
            System.out.println(array[i]);
        }

    }

    public static void main(String[] args) {
        ReverseArray j1=new ReverseArray();
        j1.reverse();
    }
}
```

Output-
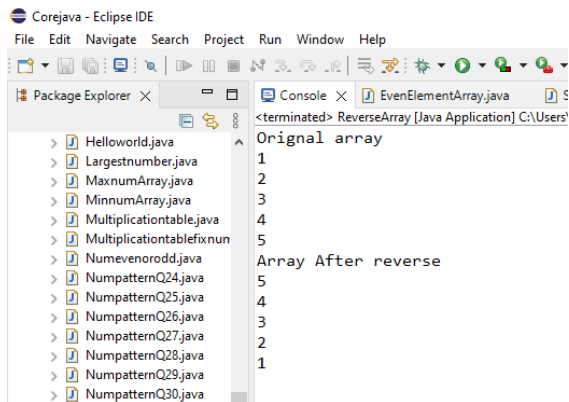
Q.39. Declare the array and also a one variable, and search this variable into the array and print the message accordingly present or not.

Ans-
```java
package Assignments;

public class Arrayvariableintoarray {

	public void sam(int arr1) {
		int arr[]= {1,2,3,4,5};
		boolean found=false;
		for(int a:arr) {
			if(a==arr1) {
			found=true;
			break;
		}
	}

	if(found)
	System.out.println(arr1 + " is Present");
	else
		System.out.println(arr1 + " is not Present ");
	}
	public static void main(String[] args) {
		Arrayvariableintoarray a1=new Arrayvariableintoarray();
		a1.sam(8);
		a1.sam(3);
```

```
        }

}
```

Output-
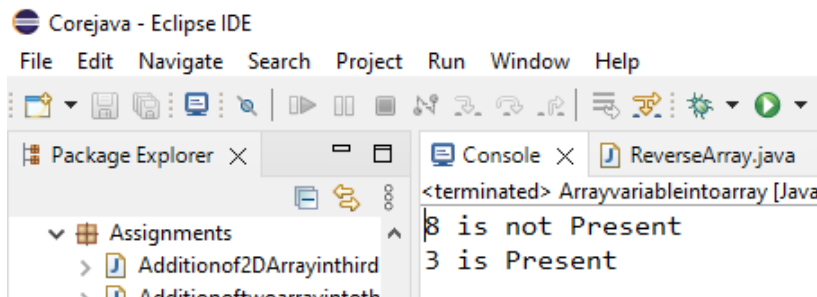
Q.40. Declare array and sort by ascending order.

Ans-

```java
package Assignments;


public class ArrayAscendingOrder {

    public void ascending() {
        int[]array=new int[] {40,48,20,10};
        int temp=0;
        System.out.println("Before ascending order");
        for(int i=0;i<array.length;i++) {
            System.out.println(array[i]+" ");
        }

        for(int i=0;i<array.length;i++) {
            for(int j=i+1;j<array.length;j++) {
                if(array[i] > array[j]) {
                temp = array[i];
                array[i] = array[j];
                array[j] = temp;
                }
            }
```

```
        }
        System.out.println( );
        System.out.println("Elements of array sorted in ascending
order");



    for(int i=0;i<array.length;i++) {
        System.out.println(array[i]+" ");
    }

}

    public static void main(String[] args) {
        ArrayAscendingOrder d1=new ArrayAscendingOrder();
        d1.ascending();


    }

}
```

Output-
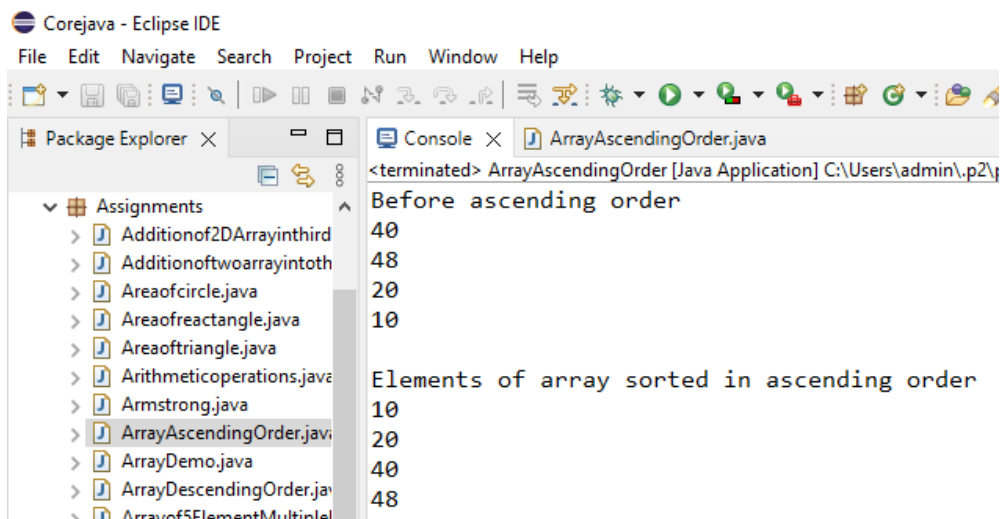
Q.41. Declare array and sort by descending order.

Ans-

```
package Assignments;
```

```java
public class ArrayDescendingOrder {

    public void descending() {
        int[]array=new int[] {40,48,2,10};
        int temp=0;
        System.out.println("Before Descending order");
        for(int i=0;i<array.length;i++) {
            System.out.println(array[i]);
        }


        for(int i=0;i<array.length;i++) {
            for(int j=i+1;j<array.length;j++) {
                if(array[i] < array[j]) {
                temp = array[i];
                array[i] = array[j];
                array[j] = temp;
                }
            }
        }
        System.out.println( );
        System.out.println("Elements of array sorted in Descending
order");


    for(int i=0;i<array.length;i++) {
        System.out.println(array[i]+" ");
    }

}

    public static void main(String[] args) {
        ArrayDescendingOrder n1=new ArrayDescendingOrder();
        n1.descending();
    }

}
```
**Output-**

File   Edit   Navigate   Search   Project   Run   Window   Help

Package Explorer ×

∨ ⊞ Assignments
  > Additionof2DArrayinthird
  > Additionoftwoarrayintoth
  > Areaofcircle.java
  > Areaofreactangle.java
  > Areaoftriangle.java
  > Arithmeticoperations.java
  > Armstrong.java
  > ArrayAscendingOrder.java
  > ArrayDemo.java
  > ArrayDescendingOrder.java
  > Arrayof5ElementMultiplel

Console ×   ArrayAscendingOrder.java   ArrayDescendingOrd

\<terminated\> ArrayDescendingOrder [Java Application] C:\Users\admin\.p2\pc

```
Before Descending order
40
48
2
10

Elements of array sorted in Descending order
48
40
10
2
```

Q.42. Find the max number from the array.

Ans-

```java
package Assignments;

public class MaxnumArray {

    public void Maxarray() {
        int []array= new int[]{1,20,3,4,5};
        int max=array[0];
        for (int i=1;i<array.length;i++) {
            if(array[i]>max)
            {
                max=array[i];
            }
        }
        System.out.println("The given array is ");
        for(int i=0;i<array.length;i++)
        {

            System.out.println(array[i]);
        }
        System.out.println("The maxinum number from array   is
"+max);

    }
    public static void main(String[] args) {
        MaxnumArray m1=new MaxnumArray();
        m1.Maxarray();
    }
}
```

}

Output-
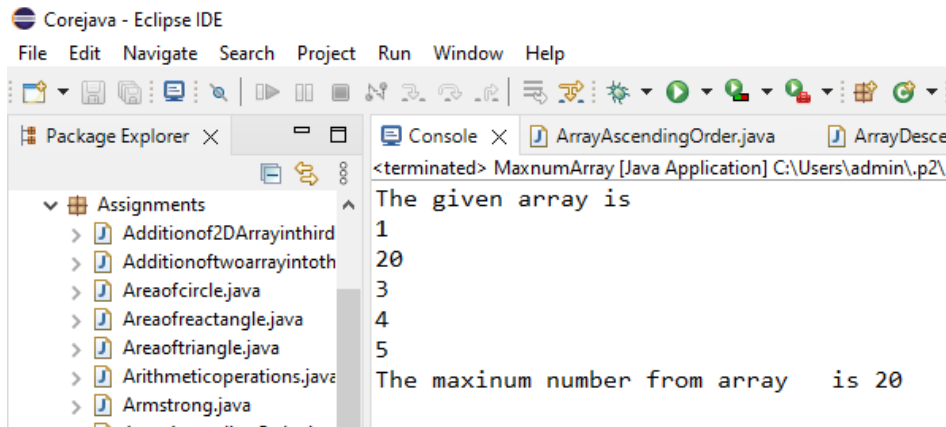
Q.43. **Find the min number from the array.**

Ans-

```java
package Assignments;

public class MinnumArray {

    public void Minarray() {
        int []array= new int[]{100,2,3,4,5};
        int max=array[0];
        for (int i=1;i<array.length;i++) {
            if(array[i]<max)
            {
                max=array[i];
            }
        }
        System.out.println("The given array is ");
        for(int i=0;i<array.length;i++)
        {

            System.out.println(array[i]);
        }
        System.out.println("The minimum number from array is "+max);

    }
}
```

```java
        public static void main(String[] args) {
                MinnumArray h1=new MinnumArray();
                h1.Minarray();

        }

}
```

Output-
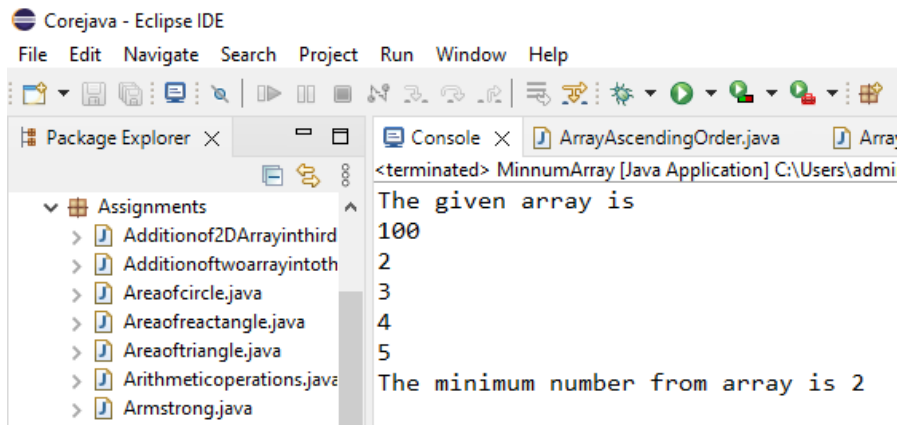
Q.44. **Declare the array and print the odd position element sum.**

Ans-

```java
package Assignments;

public class OddPositionElementSum {

        public void sumofodd() {
                int array1[]= new int[]{30,23,36,13,20};
                System.out.println("Arrays element are ");
                for(int i=0;i<array1.length;i++) {
                        System.out.println(array1[i]);
                }
System.out.println("Addition of odd position element is ");
                int array[]= new int[]{30,23,36,13,20};
                int sum=0;
                for(int i=0;i<array.length;i++) {
                        if(array[i]%2!=0) {
                        sum=sum+array[i];
                        }}
```

```java
            System.out.println(sum);
}


    public static void main(String[] args) {
        OddPositionElementSum o1=new OddPositionElementSum();
        o1.sumofodd();
    }

}
```

Output-
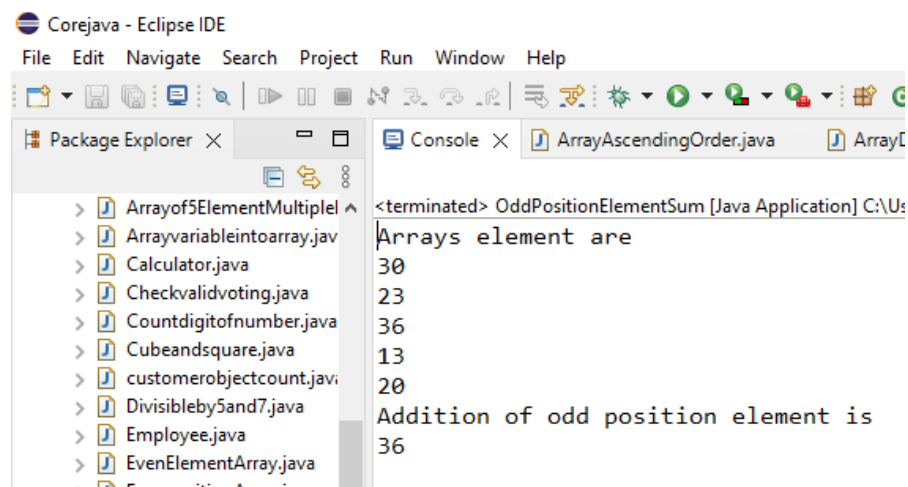
Q.45. **Declare student marks in array and print the total and percentage.**

Ans-

```java
package Assignments;

public class StudentMarkResultPercentageInArray {

    public void StudentResult() {
        System.out.println("Student marks in array are");
        int []array=new int []{70,66,88,74,90};
        for(int i=0;i<array.length;i++) {
            System.out.println(array[i]);
        }
        int Total=0; double avg=0;
        for(int i=1;i<array.length;i++) {
```

```java
                Total=Total+array[i];

            }


        System.out.println("Mark of total is "+Total);
        avg=Total/array.length;
        System.out.println("Percentage is "+avg);


    if(avg>35) {
        System.out.println("Result : "+"Pass");
    }
        else {
            System.out.println("Result : "+"fail");
        }
    }

    public static void main(String[] args) {
        StudentMarkResultPercentageInArray s1=new
StudentMarkResultPercentageInArray();
        s1.StudentResult();
    }

}
```

Output-
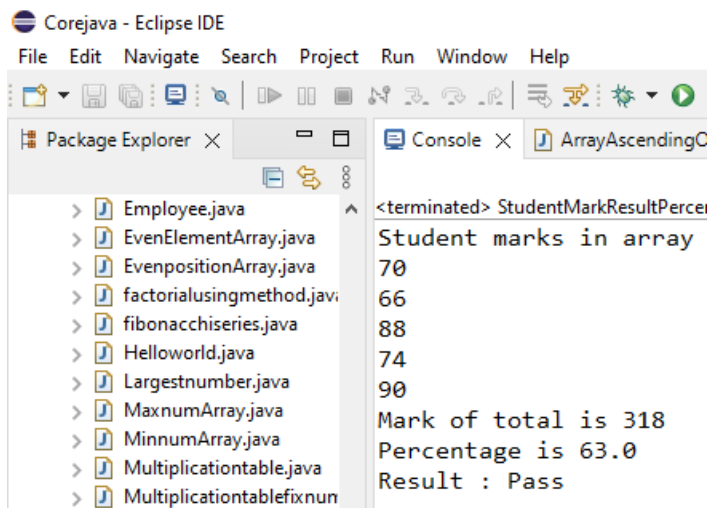
Q.46. Take 5 element in array multiply them by 3 and print the resultant array

(a[3,2,5,6,8]   output :[9,6,15,18,24]).

Ans-

```java
package Assignments;

public class Arrayof5ElementMultipleby3 {

    public void Multipleby3() {
        int array[]=new int[] {2,3,4,5,6};
        int n=3;
        System.out.println("Arrays elements are ");
        for(int i=0;i<array.length;i++) {
            System.out.print(" "+array[i]);
        }
        System.out.println(" ");
        System.out.println("Element multiply by 3 ");
        for(int i=0;i<array.length;i++) {

            System.out.print(" "+array[i]*n);
        }
    }
    public static void main(String[] args) {
        Arrayof5ElementMultipleby3 a1=new
Arrayof5ElementMultipleby3();
        a1.Multipleby3();
    }

}
```

Output-
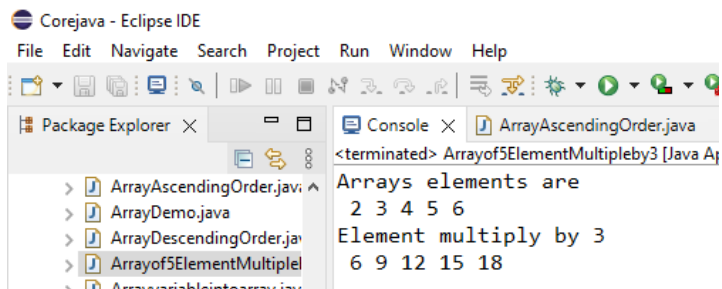
Q.47. Declare two separate array and store its sum into third array.

Ans-

```java
package Assignments;

public class AdditionoftwoarrayintothirdArray {

        public void AdditionoftwoArray() {
        int array1[]=  {10,20,30,40,50};
        int array2[]=  {20,40,60,80,100};
        int array3[]=new int [array1.length];


        for(int i=0;i<array1.length;i++) {
            array3[i]=array1[i]+array2[i];
            }
        System.out.println("sum of array1[]and array2[] is ");
        for(int j=0;j<array3.length;j++) {
            System.out.println(array3[j]);


        }
        }
        public static void main(String[] args) {
        AdditionoftwoarrayintothirdArray a1=new
AdditionoftwoarrayintothirdArray();
        a1.AdditionoftwoArray();
    }

}
```

Output-
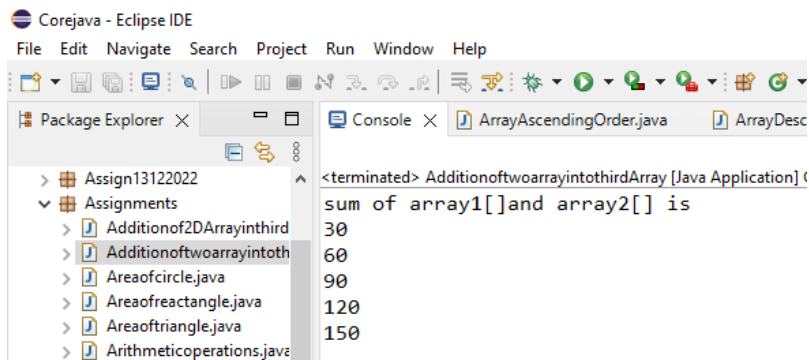
Q.48. Declare 2D array and find max element.

ANS

```java
package Assignments;

public class Two2DarrayMaxNum {

        public void twodarray() {
                int [][]array1=
{{1,2,3,4},{2,3,4,5},{1,4,5,6},{4,5,6,8}};
                System.out.println("2D Arrays are ");
                for(int i=0;i<array1.length;i++) {
                        for(int j=0;j<array1.length;j++) {
                                System.out.print("\t\t "+ array1[i][j]);
                        }
                        System.out.println( );
                }

                int [][]array=
{{1,2,3,4},{2,3,4,5},{1,4,5,6},{4,5,6,8}};

                System.out.println("Maximum number in 2D array is :
");
                int maxNumber=array[0][0];
                for(int i=0;i<array.length;i++) {
                        for(int j=0;j<array.length;j++) {
                                if(array[i][j]>maxNumber) {
                                        maxNumber=array[i][j];
                                }
                        }
                }
        System.out.println(maxNumber);
}
    public static void main(String[] args) {
        Two2DarrayMaxNum t1=new Two2DarrayMaxNum();
        t1.twodarray();
    }

    }
```
Output-

Package Explorer ×

Console ×   ArrayAscendingOrder.java   Two2DarrayMaxNum.java

<terminated> Two2DarrayMaxNum [Java Application] C:\Users\admin\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.fu

> NumpatternQ27.java
> NumpatternQ28.java
> NumpatternQ29.java
> NumpatternQ30.java
> OddElementArray.java
> OddpositionArray.java
> OddPositionElementSum
> Palindromenum.java

```
2D Arrays are
                    1           2           3           4
                    2           3           4           5
                    1           4           5           6
                    4           5           6           8
Maximum number in 2D array is :
8
```

Q.49. Declare 2D array and find min element.

Ans-

```java
package Assignments;

public class Two2DarrayMinNum {

    public void twodminarray() {
        int [][]array1= {{100,2,3,4},{2,3,4,5},{1,4,5,6},{4,5,6,8}};
        System.out.println("2D Arrays are ");
        for(int i=0;i<array1.length;i++) {
            for(int j=0;j<array1.length;j++) {
                System.out.print("\t\t "+ array1[i][j]);
            }
            System.out.println( );
        }

        int [][]array= {{1,2,3,4},{2,3,4,5},{1,4,5,6},{4,5,6,8}};

        System.out.println("Manimum number in 2D array is : ");
        int maxNumber=array[0][0];
        for(int i=0;i<array.length;i++) {
            for(int j=0;j<array.length;j++) {
                if(array[i][j]<maxNumber) {
                    maxNumber=array[i][j];
                }
            }
        }
    System.out.println(maxNumber);
}

    public static void main(String[] args) {
        Two2DarrayMinNum t1=new Two2DarrayMinNum();
        t1.twodminarray();
```
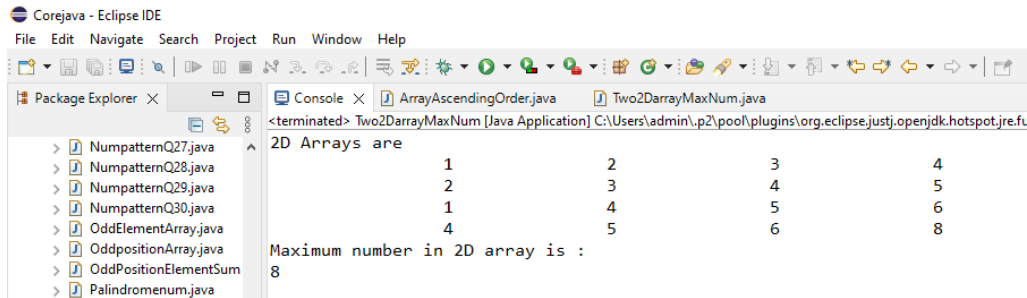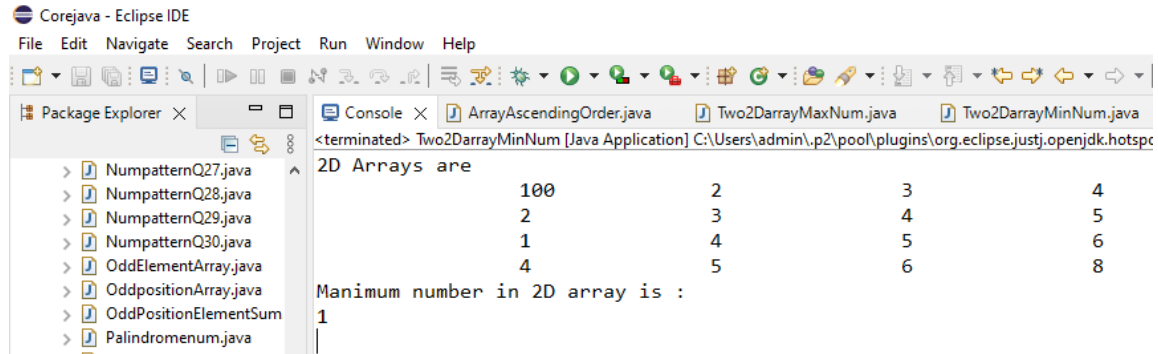
```
        }

    }
```

Output-

```
2D Arrays are
                        100             2               3               4
                          2             3               4               5
                          1             4               5               6
                          4             5               6               8
Manimum number in 2D array is :
1
```

Q.50. Declare two separate 2D array and store its sum into third array.

Ans-

```java
package Assignments;

public class Additionof2DArrayinthirdarray {


    public void Addition(int a[][],int b[][]) {
        int add[][]=new int[5][5];

        System.out.println("First 2D array ");
        for(int i=0;i<=a.length-1;i++){
            for(int j=0;j<=b[i].length-1;j++) {
                System.out.print("\t"+a[i][j]);
            }
            System.out.println();
        }

        System.out.println("Second 2D array ");
        for(int i=0;i<=a.length-1;i++) {
            for(int j=0;j<=b[i].length-1;j++) {
                System.out.print("\t"+b[i][j]);
            }
            System.out.println();
        }
```

```java
        for(int i=0;i<=a.length-1;i++) {
            for(int j=0;j<=b[i].length-1;j++) {
                add[i][j]=a[i][j]+b[i][j];
            }
        }

        System.out.println("Addition");
        for(int i=0;i<=a.length-1;i++) {
            for(int j=0;j<=b[i].length-1;j++) {
                System.out.print("\t"+add[i][j]);
            }
            System.out.println();
        }
    }

    public static void main(String[] args) {
        Additionof2DArrayinthirdarray a1=new
Additionof2DArrayinthirdarray();
        int a[][]= {{20,20},{89,90}};
        int b[][]= {{10,30},{50,50}};
        a1.Addition(a, b);
    }

}
```

Output-

```
<terminated> Additionof2DArrayinthirdarra
First 2D array
          20          20
          89          90
Second 2D array
          10          30
          50          50
Addition
          30          50
         139         140
```