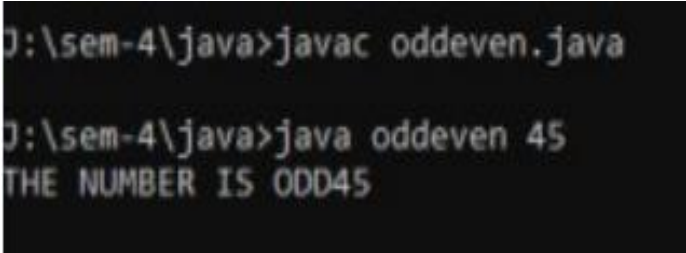


JOURNAL:1

1. Write a program to take command line input and check number is odd or even.

CODE:

```
class oddeven
{
    public static void main(String[] args)
    {
        int a;
        a=Integer.parseInt(args[0]);
        if(a%2==0)
        {
            System.out.println(a);
            System.out.println("THENUMBER ISEVEN"+a);
        }
        else
        {
            System.out.println(a);
            System.out.println("THE NUMBER IS ODD"+a);
        }
    }
}
```

OUTPUT:

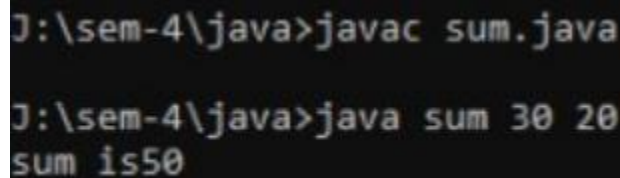
```
D:\sem-4\java>javac oddeven.java
D:\sem-4\java>java oddeven 45
THE NUMBER IS ODD45
```

2. Write a program to take command line input and sum of 2 number.

CODE:

```
class sum
{
    public static void main(String[] args)
    {
        int a,b,c;
        a=Integer.parseInt(args[0]);
        b=Integer.parseInt(args[1]);
        c=a+b;
        System.out.println("sum is" +c);
    }
}
```

OUTPUT:



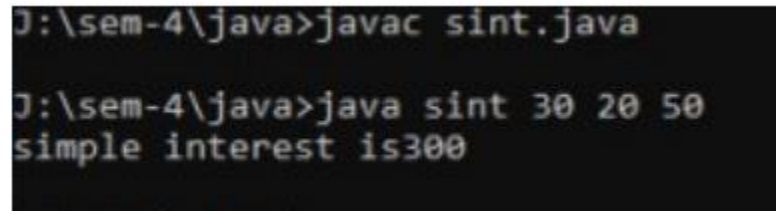
```
J:\sem-4\java>javac sum.java
J:\sem-4\java>java sum 30 20
sum is50
```

3. Write a program to take command line input and calculate a Simple Interest.

CODE:

```
class sint
{
    public static void main(String args[])
    {
        float p,r,t,si;
        p=Integer.parseInt(args[0]);
        r=Integer.parseInt(args[1]);
        t=Integer.parseInt(args[2]);
```

```
        si=(p*r*t)/100;  
        System.out.println("Simple Intrest =" +si);  
    }  
}
```

OUTPUT:

```
J:\sem-4\java>javac sint.java  
  
J:\sem-4\java>java sint 30 20 50  
simple interest is300
```

4. Write a Program to take command line input and Check Number is Positive or Negative.

CODE:

```
class posnev  
{  
    public static void main(String[] args){  
        int a;  
        a=Integer.parseInt(args[0]);  
        if(a>0)  
        {  
            System.out.println("number is positive"+a);  
        }  
        else  
        {  
            System.out.println("number is negative"+a);  
        }  
    }  
}
```

OUTPUT:

```
J:\sem-4\java>javac posnev.java  
J:\sem-4\java>java posnev -78  
number is negative-78
```

5. Write a Program to take command line input and Check Year is Leap Year or Not

CODE:

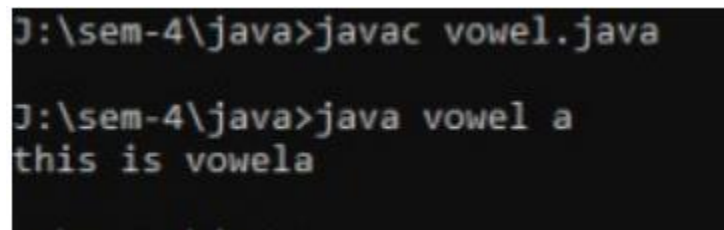
```
class leap  
{  
    public static void main(String[] args)  
    {  
        int year;  
        year=Integer.parseInt(args[0]);  
        if(year%40==0)  
        {  
            System.out.println("year is leap year"+year);  
        }  
        else  
        {  
            System.out.println("year is not leap year"+year);  
        }  
    }  
}
```

OUTPUT:

```
J:\sem-4\java>javac leap.java  
J:\sem-4\java>java leap 2013  
year is not leap year2013
```

6. Write a program to take command line input and find the Character Is Vowel or Not**CODE:**

```
class vowel
{
    public static void main(String [] args)
    {
        String s= args[0];
        char a=s.charAt(0);
        if(a == 'a' || a == 'e' || a == 'i' || a == 'o' || a == 'u' || a == 'A' || a == 'E' || a == 'I' || a == 'O' || a == 'U' )
        {
            System.out.println("this is vowel"+a);
        }
        Else
        {
            System.out.println("this is not vowel"+a);
        }
    }
}
```

OUTPUT:

```
J:\sem-4\java>javac vowel.java
J:\sem-4\java>java vowel a
this is vowel a
```

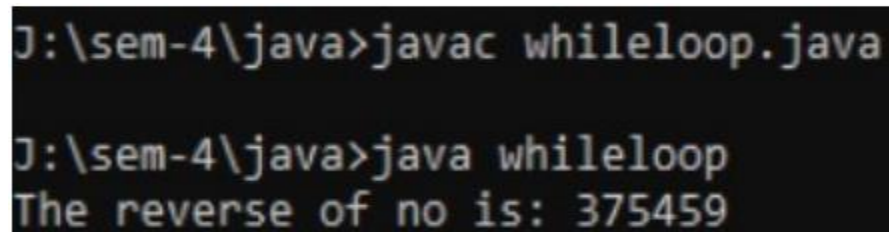
7. Write a program to reverse a given number using while loop.**Code:****CODE:**

```
class whileloop
```

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```
{  
    public static void main(String[] args)  
    {  
        int number=954573,reverse=0;  
        while(number != 0)  
        {  
            int reminder=number%10;  
            reverse = reverse*10+reminder;  
            number=number/10;  
        }  
        System.out.println("The reverse of no is:"+reverse);  
    }  
}
```

OUTPUT:



```
J:\sem-4\java>javac whileloop.java  
J:\sem-4\java>java whileloop  
The reverse of no is: 375459
```

8. Write a program to reverse a given number using for loop.

CODE:

```
class forloop  
{  
    public static void main(String[] args)  
    {  
        int number=678,reverse=0;  
        for(;number != 0;number=number/10)  
        {
```

```
        int reminder=number%10;

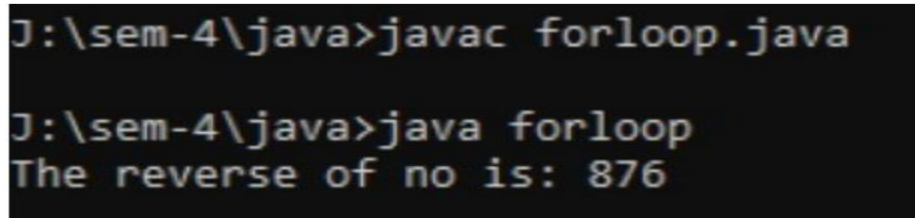
        reverse = reverse*10+reminder;

    }

    System.out.println("The reverse of no is :"+reverse);

}

}
```

OUTPUT:

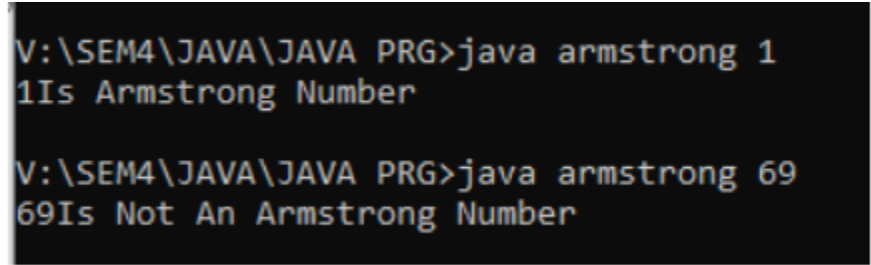
```
J:\sem-4\java>javac forloop.java

J:\sem-4\java>java forloop
The reverse of no is: 876
```

9. Write a program to check number is Armstrong or Not**CODE:**

```
Public class arm
{
    public static void main(String[] args)
    {
        int number=371,o,r,result=0;
        o=number;
        while(o!=0)
        {
            R=o%10;
            Result +=Math.pow(r,3);
            o/=10;
        }
        if(result==number)
        {
            System.out.println(number +"is an Armstrong number.");
        }
    }
}
```

```
        }  
        else  
        {  
            System.out.println(number + "is not an Armstrong number");  
        }  
    }  
}
```

OUTPUT:

```
V:\SEM4\JAVA\JAVA PRG>java armstrong 1  
1Is Armstrong Number  
  
V:\SEM4\JAVA\JAVA PRG>java armstrong 69  
69Is Not An Armstrong Number
```

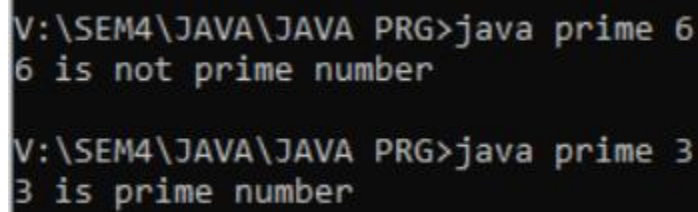
10 . Write a to check number is Prime number or not.

CODE:

```
class primen  
{  
    public static void main(String args[])  
    {  
        int no=7;  
        int temp=0;  
        for(int i=2;i<=no-1;i++)  
        {  
            If(no%i==0)  
            {  
                Temp=temp+1;  
            }  
        }  
        If(temp==0)
```



```
        {  
            System.out.println("this is prime no"+no);  
        }  
        else  
        {  
            System.out.println("this is not prime no"+no);  
        }  
    }  
}
```

OUTPUT:

```
V:\SEM4\JAVA\JAVA PRG>java prime 6  
6 is not prime number  
  
V:\SEM4\JAVA\JAVA PRG>java prime 3  
3 is prime number
```

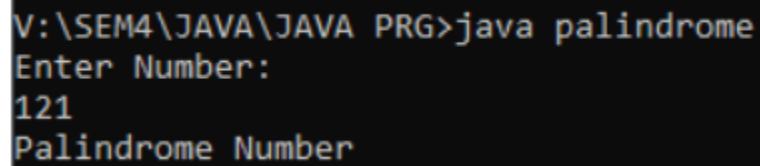
11 . Write a program to check given string is Palindrome or not.

CODE:

```
class palindrome  
{  
    public static void main(String[] args)  
    {  
        int p,add=0,t,n;  
        n=Integer.parseInt(args[0]);  
        System.out.println("Enter Number:"+n);  
        t=n;  
        while(n>0)  
        {  
            p=n%10;  
            add=(add*10)+p;  
            n=n/10;
```

```
    }  
    if(t==add)  
    {  
        System.out.println("Palindrome Number "+add);  
    }  
    else  
    {  
        System.out.println("Not a Palindrome Number");  
    }  
}  
}
```

OUTPUT:



```
V:\SEM4\JAVA\JAVA PRG>java palindrome  
Enter Number:  
121  
Palindrome Number
```

12. Write a program in java to display the pattern like right angle triangle using an asterisk.

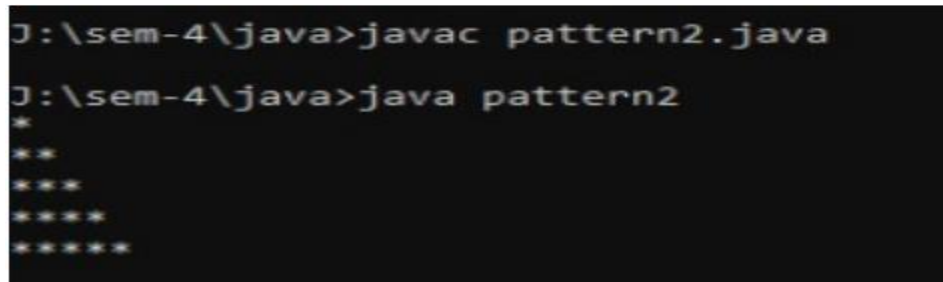
```
*  
  
**  
  
***  
  
****  
  
*****
```

CODE:

```
class pattern2  
{
```

```
public static void main(String[] args)
{
    Int i=6;
    for(i=0;i<6;i++)
    {
        for(j=1;j<=i;j++)
        {
            System.out.print(" *");
        }
        System.out.println("");
    }
}
```

OUTPUT:



```
J:\sem-4\java>javac pattern2.java
J:\sem-4\java>java pattern2
*
**
***
****
*****
```

13. Write a program in java to make such a pattern like a pyramid with numbers increased by 1. 1 2 3 4 5 6 7 8 9 10.

CODE:

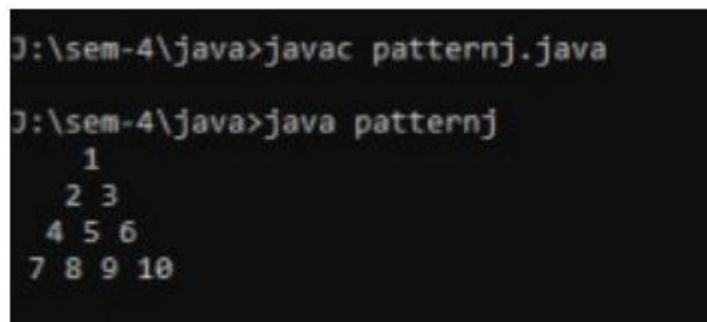
```
class patternj
{
    public static void main(String[] args)
    {
        int i=1;
        int count =1;
        for(int i=1;i<=4;i++)
```

```

    {
        for(int j=4;j>=i;j--)
        {
            System.out.print(" ");
        }
        for(int k=1;k<=i;k++)
        {
            System.out.print(count + " ");
            count++;
        }
        System.out.println();
    }
}

```

OUTPUT:



```

D:\sem-4\java>javac patternj.java
D:\sem-4\java>java patternj
    1
   2 3
  4 5 6
 7 8 9 10

```

14. Write a C Program to display the pattern using the alphabet.

```

A B C D E
A B C D
A B C
A B
A

```

CODE:

```

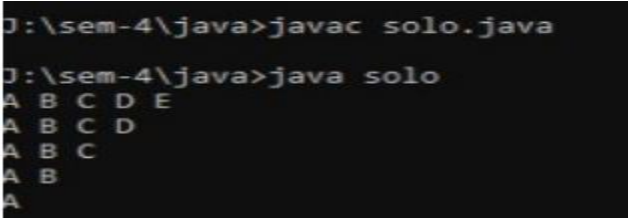
class solo

```

```

{
    public static void main(String[] args)
    {
        Int n=5,s,j
        for(s=1;s<=n;s++)
        {
            for(j=1;j<=n-s+1;j++)
            {
                System.out.print((char)('A'+(j-1))+" ");
            }
            System.out.println();
        }
    }
}

```



```

D:\sem-4\java>javac solo.java
D:\sem-4\java>java solo
A B C D E
A B C D
A B C
A B
A

```

OUTPUT:

15. Write a program to take command line input and print factorial of given number.

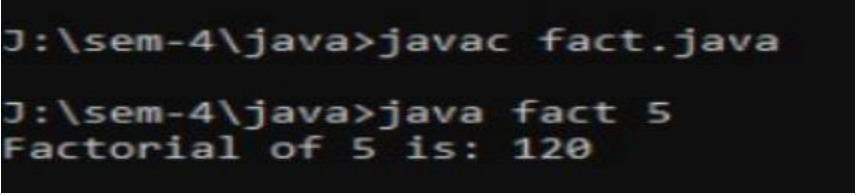
CODE:

```

class fact
{
    public static void main(String args[])
    {
        int i,f=1;
        int n; //It is the factorial number
        n=Integer.parseInt(args[0]);
        for(i=1;i<=n;i++)

```

```
        {  
            f=f*i;  
        }  
        System.out.println("Factorial of "+n+" is: "+f);  
    }  
}
```

OUTPUT:

```
J:\sem-4\java>javac fact.java  
J:\sem-4\java>java fact 5  
Factorial of 5 is: 120
```

16. Write a program to display Fibonacci series .**CODE:**

```
class Fibo  
{  
    public static void main(String[] args)  
    {  
        Int a=0,b=1;  
        System.out.println(a+" "+b);  
        Int c;  
        for (int i= 1;i<=20;i++)  
        {  
            c=a+b;  
            System.out.print(" "+c);  
            a=b;  
            b=c;  
        }  
    }  
}
```

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OUTPUT:

```
D:\sem-4\java>javac fibo.java
```

```
D:\sem-4\java>java fibo
```

```
0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610 987 1597 2584 4181 6765 10946
```