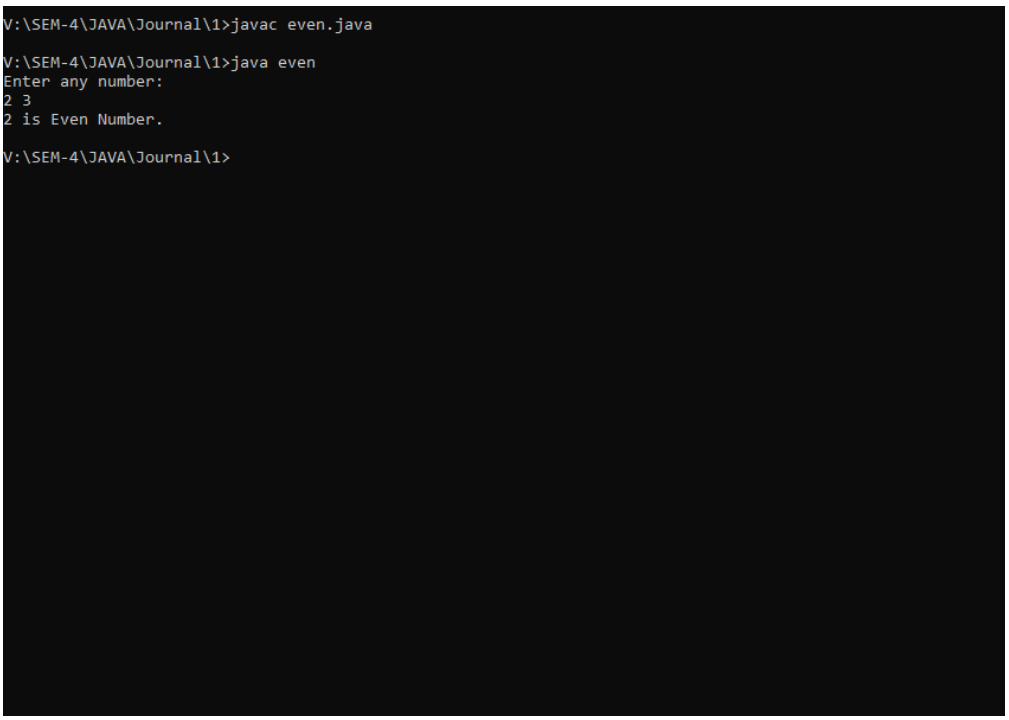
1)Write a program to take command line input and check number is odd or even.

```
import java.util.Scanner;
class even
{
	public static void main(String args[])
	{
		int a;
		Scanner s=new Scanner(System.in);
		System.out.println("Enter any number:");
		a=s.nextInt();
		if(a%2==0)
			System.out.println(a+" is Even Number.");
		else
			System.out.println(a+" is Odd Number.");
	}
}
```



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

```
import java.util.Scanner;
class add
{
        public static void main(String args[])
        {
                int a,b,c;
                Scanner s=new Scanner(System.in);
                System.out.println("Enter First number:");
                a=s.nextInt();
                System.out.println("Enter Secoend number:");
                b=s.nextInt();
                c=a+b;
                System.out.println("The sum of 2 digit is:"+c);
        }
}
```

```
V:\SEM-4\JAVA\Journal\1>javac add.java

V:\SEM-4\JAVA\Journal\1>java add
Enter First number:
2 5
Enter Secoend number:
The sum of 2 digit is:7

V:\SEM-4\JAVA\Journal\1>java add
Enter First number:
4
Enter Secoend number:
5
The sum of 2 digit is:9

V:\SEM-4\JAVA\Journal\1>
```

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

```
import java.util.Scanner;
class simpleinterest
{
        public static void main(String args[])
        {
                int p,r,n,a;
                Scanner s=new Scanner(System.in);
                System.out.println("Enter value of princip Amount:");
                p=s.nextInt();
                System.out.println("Enter value of rate:");
                r=s.nextInt();
                System.out.println("Enter value of number of month:");
                n=s.nextInt();
                a=(p*r*n)/100;
                System.out.println("The simpleinterest is:"+a);
        }
}
```

```
V:\SEM-4\JAVA\Journal\1>javac simpleinterest.java

V:\SEM-4\JAVA\Journal\1>java simpleinterest
Enter value of princip Amount:
5000
Enter value of rate:
11
Enter value of number of month:
9
The simpleinterest is:4950

V:\SEM-4\JAVA\Journal\1>
```

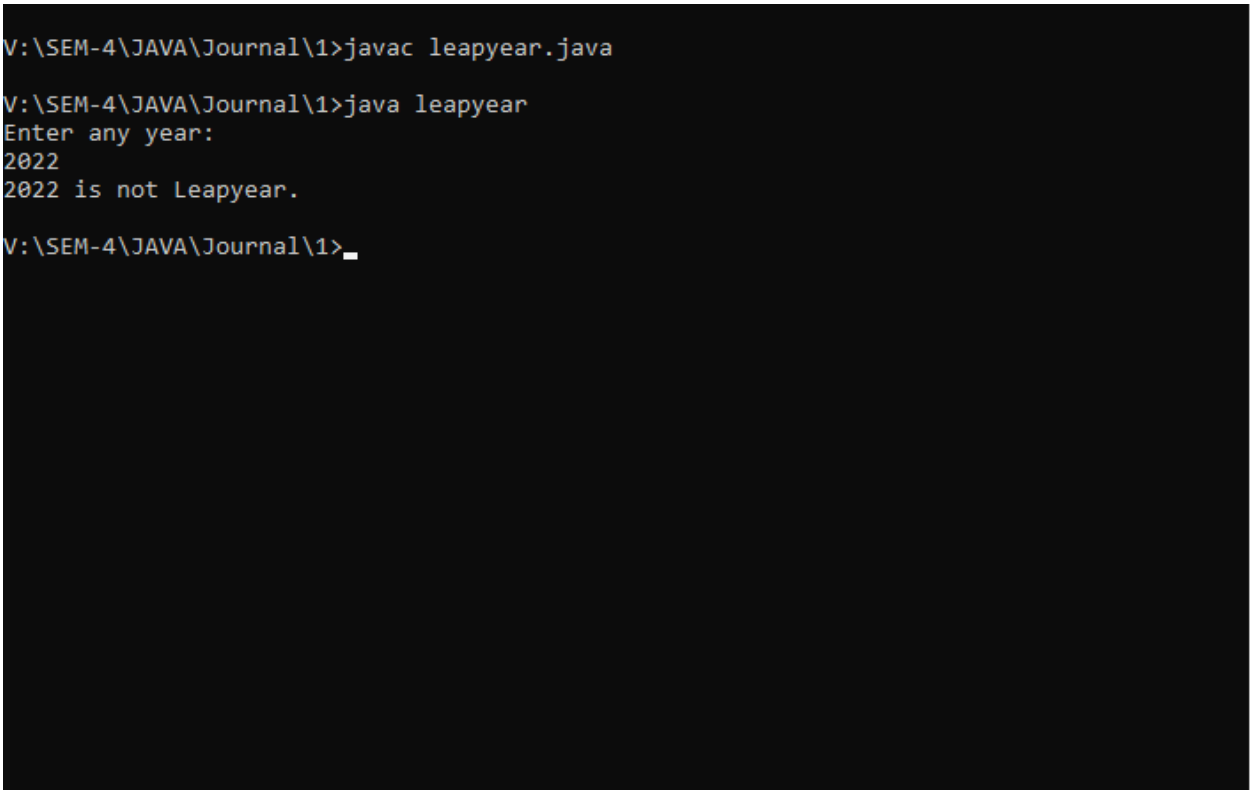
4)Write a Program to take command line input and Check Number is Positive or Negative

```
import java.util.Scanner;
class positive
{
	public static void main(String args[])
	{
		int a;
		Scanner s=new Scanner(System.in);
		System.out.println("Enter any number:");
		a=s.nextInt();
		if(a>0)
			System.out.println(a+" is Positive Number.");
		else
			System.out.println(a+" is Nagative Number.");
	}
}
```

```
V:\SEM-4\JAVA\Journal\1>javac positive.java

V:\SEM-4\JAVA\Journal\1>java positive
Enter any number:
2
2 is Positive Number.

V:\SEM-4\JAVA\Journal\1>javac positive.java

V:\SEM-4\JAVA\Journal\1>java positive
Enter any number:
-2
-2 is Nagative Number.

V:\SEM-4\JAVA\Journal\1>
```

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

```
import java.util.Scanner;
class leapyear
{
	public static void main(String args[])
	{
		int a;
		Scanner s=new Scanner(System.in);
		System.out.println("Enter any year:");
		a=s.nextInt();
		if(a%4==0)
			System.out.println(a+" is Leapyear.");
		else
			System.out.println(a+" is not Leapyear.");
	}
}
```



6)Write a program to take command line input and find the Character Is Vowel or Not

```
import java.util.Scanner;
class vowel1
{
   public static void main(String args[])
   {
          char a;
           Scanner s=new Scanner(System.in);
          System.out.println("Enter any character:");
          a=s.next().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("Enter character is Vowel.");
          else
                     System.out.println("Enter character is Consonant");
   }
}
```

```
V:\SEM-4\JAVA\Journal\1>javac vowel1.java

V:\SEM-4\JAVA\Journal\1>java vowel1
Enter any character:
a
Enter character is Vowel.

V:\SEM-4\JAVA\Journal\1>
```

7)Write a program to reverse a given number using while loop.

```
import java.util.Scanner;
class whilereverse
{
        public static void main(String args[])
        {
                int a,r,c=0,b;
                Scanner s=new Scanner(System.in);
                System.out.println("Enter any Number:");
                a=s.nextInt();
                b=a;
                while(a>0)
                {
                        r=a%10;
                        c=c*10+r;
                        a=a/10;
                }
                System.out.println("Reverse Number is " +c);
        }
}
```

```
V:\SEM-4\JAVA\Journal\1>javac whilereverse.java

V:\SEM-4\JAVA\Journal\1>java whilereverse
Enter any Number:
1234
Reverse Number is 4321

V:\SEM-4\JAVA\Journal\1>
```

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

```
import java.util.Scanner;
class forreverse
{
        public static void main(String args[])
        {
                int a,r,c=0,b,i;
                Scanner s=new Scanner(System.in);
                System.out.println("Enter any Number:");
                a=s.nextInt();
                b=a;
                for(i=0;a>0;i++)
                {
                        r=a%10;
                        c=c*10+r;
                        a=a/10;
                }
                System.out.println("Reverse Number is " +c);
        }
}
```

```
V:\SEM-4\JAVA\Journal\1>javac forreverse.java

V:\SEM-4\JAVA\Journal\1>java forreverse
Enter any Number:
1234
Reverse Number is 4321

V:\SEM-4\JAVA\Journal\1>
```

9)Write a program to check number is Armstrong or Not

```
import java.util.Scanner;
class armstrong
{
	public static void main(String args[])
	{
		int a,r,c=0,b;
		Scanner s=new Scanner(System.in);
		System.out.println("Enter any number:");
		a=s.nextInt();
		b=a;
		while(a>0)
		{
			r=a%10;
			c=c+r*r*r;
			a=a/10;
		}
		if(b==c)
			System.out.println(b+" is Armstrong");
		else
			System.out.println(b+" is not Armstrong");
	}
}
```

```
V:\SEM-4\JAVA\Journal>cd 1

V:\SEM-4\JAVA\Journal\1>javac armstrong.java

V:\SEM-4\JAVA\Journal\1>java armstrong
Enter any number:
2 4 6
2 is not Armstrong

V:\SEM-4\JAVA\Journal\1>
```

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

```
import java.util.Scanner;
class prime
{
	public static void main(String args[])
	{
		int a,i,c=0;
		Scanner s=new Scanner(System.in);
		System.out.println("Enter any number:");
		a=s.nextInt();
		for(i=2;i<a;i++)
		{
			if(a%i==0)
			{
				c=1;
				break;
			}

		}
		if(c==1)
			System.out.println(a+" is  not Prime Number");
		else
			System.out.println(a+" is Prime Number");
	}
}
```

```
V:\SEM-4\JAVA\Journal\1>javac prime.java

V:\SEM-4\JAVA\Journal\1>java prime
Enter any number:
21
21 is not Prime Number

V:\SEM-4\JAVA\Journal\1>
```

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

*

**

***

****

*****

```
import java.util.Scanner;
class pattern1
{
	public static void main(String args[])
	{
		int r,i,j;
		Scanner s=new Scanner(System.in);
		System.out.println("How many row do you want to print:");
		for(i=0;i<r;i++)
		{
			System.out.print(" ");
			for(j=0;j<=i;j++)
				System.out.print("* ");
			System.out.println(" ");
		}
	}
}
```

```
V:\SEM-4\JAVA\Journal\1>javac pattern1.java

V:\SEM-4\JAVA\Journal\1>java pattern1
How many row do you want to print:
7
*
* *
* * *
* * * *
* * * * *
* * * * * *
* * * * * * *

V:\SEM-4\JAVA\Journal\1>java pattern1
How many row do you want to print:
9
*
* *
* * *
* * * *
* * * * *
* * * * * *
* * * * * * *
* * * * * * * *
* * * * * * * * *
```

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
```

```
import java.util.Scanner;
class pattern2
{
	public static void main(String args[])
	{
		int r,i,j,counter=1;
		 Scanner s=new Scanner(System.in);
		System.out.println("Enter any number:");
		 r=s.nextInt();
		for(i=0;i<r;i++)
		{

			for(j = 0;j < r-i-1;j++)
			{
				System.out.print(" ");
			}
			for(int k = 0;k<=i;k++)
			{
				System.out.print(counter+" ");
				counter++;
			 }
			System.out.println();
		}
	}
}
```

```
V:\SEM-4\JAVA\Journal\1>javac pattern2.java

V:\SEM-4\JAVA\Journal\1>java pattern2
Enter any number:
5
    1
   2 3
  4 5 6
 7 8 9 10
11 12 13 14 15

V:\SEM-4\JAVA\Journal\1>
```

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

```
import java.util.Scanner;
class pattern3
{
	public static void main(String args[])
	{
	int a,i,j=0;
	char c;
	Scanner s=new Scanner(System.in);
	System.out.println("Enter any number:");
	a=s.nextInt();
		for(j=a;j>=1;j--)
		{
			c='A';
			for(i=1;i<=j;i++)
			{
				System.out.print(c+" ");
				c++;
			}
			System.out.println("\n");
		}
	}
}
```

```
V:\SEM-4\JAVA\Journal\1>javac pattern3.java

V:\SEM-4\JAVA\Journal\1>java pattern3
Enter any number:
7
A B C D E F G

A B C D E F

A B C D E

A B C D

A B C

A B

A


V:\SEM-4\JAVA\Journal\1>
```

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

```
import java.util.Scanner;
class factorial
{
   public static void main(String args[])
   {
      int a,i,fact=1;
      Scanner s=new Scanner(System.in);
      System.out.println("Enter any number:");
      a=s.nextInt();

      for(i=1;i<=a;i++)
      {
         fact=fact*i;
      }
      System.out.println("Factorial of "+a+" is: "+fact);
   }
}
```

```
V:\SEM-4\JAVA\Journal\1>javac factorial.java

V:\SEM-4\JAVA\Journal\1>java factorial
Enter any number:
5
Factorial of 5 is: 120

V:\SEM-4\JAVA\Journal\1>
```

16)Write a program to display Fibonacci series

```
import java.util.Scanner;
class fibonacci
{
   public static void main(String args[])
   {
      int a,b=0,c=1,k,i;
      Scanner s=new Scanner(System.in);
      System.out.println("Enter any number:");
      a=s.nextInt();
      System.out.print(b+" "+c);
      for(i=2;i<a;++i)
      {
          k=b+c;
          System.out.print(" "+k);
          b=c;
          c=k;
      }
   }
}
```