

JAVA JOURNAL

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();

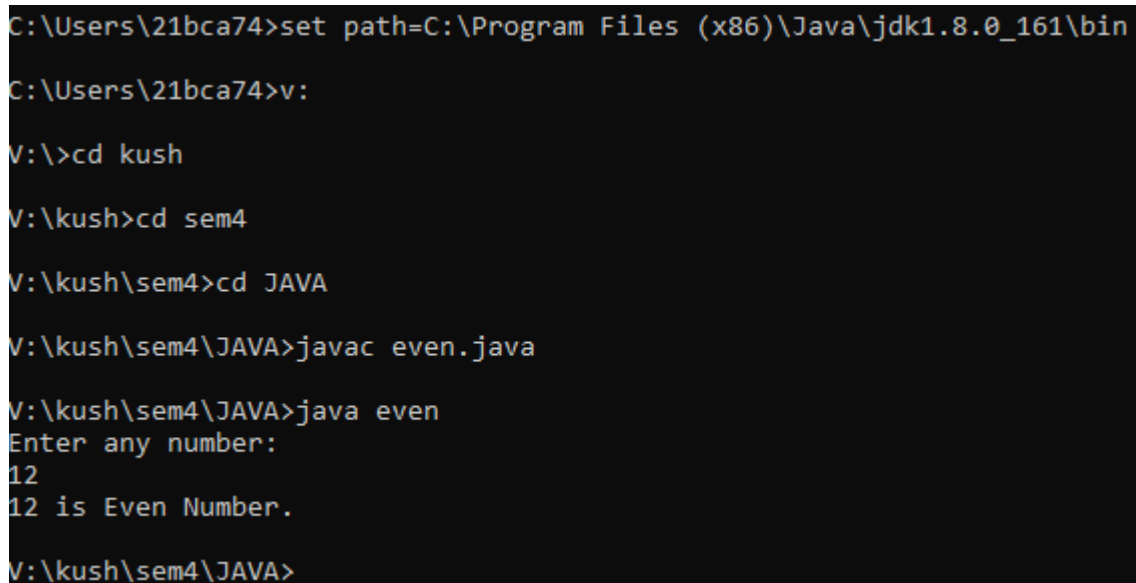
        if(a%2==0)

            System.out.println(a+" is Even Number.");

        else

            System.out.println(a+" is Odd Number.");

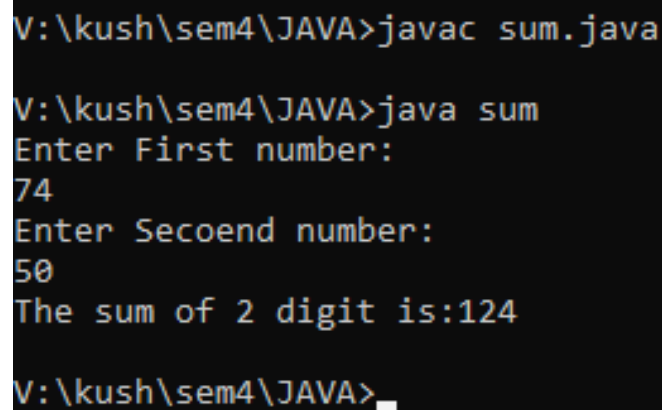
    }
}
```



```
C:\Users\21bca74>set path=C:\Program Files (x86)\Java\jdk1.8.0_161\bin
C:\Users\21bca74>v:
V:\>cd kush
V:\kush>cd sem4
V:\kush\sem4>cd JAVA
V:\kush\sem4\JAVA>javac even.java
V:\kush\sem4\JAVA>java even
Enter any number:
12
12 is Even Number.
V:\kush\sem4\JAVA>
```

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

```
import java.util.Scanner;
class sum
{
    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);
    }
}
```



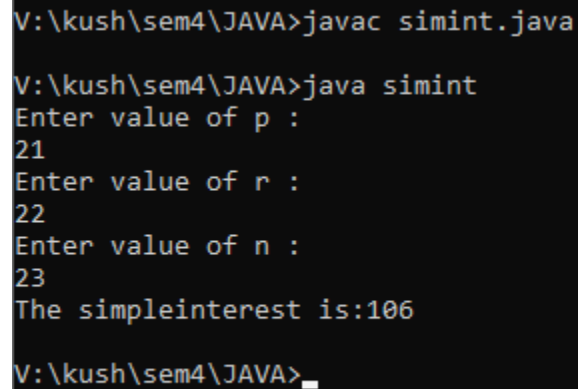
```
V:\kush\sem4\JAVA>javac sum.java

V:\kush\sem4\JAVA>java sum
Enter First number:
74
Enter Secoend number:
50
The sum of 2 digit is:124

V:\kush\sem4\JAVA>_
```

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

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

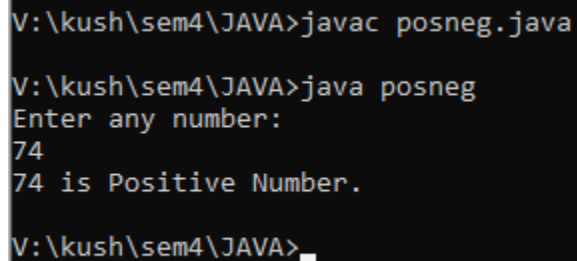


```
V:\kush\sem4\JAVA>javac simint.java
V:\kush\sem4\JAVA>java simint
Enter value of p :
21
Enter value of r :
22
Enter value of n :
23
The simpleinterest is:106
V:\kush\sem4\JAVA>_
```

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

```
import java.util.Scanner;
class posneg
{
    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 Negative Number.");
    }
}
```

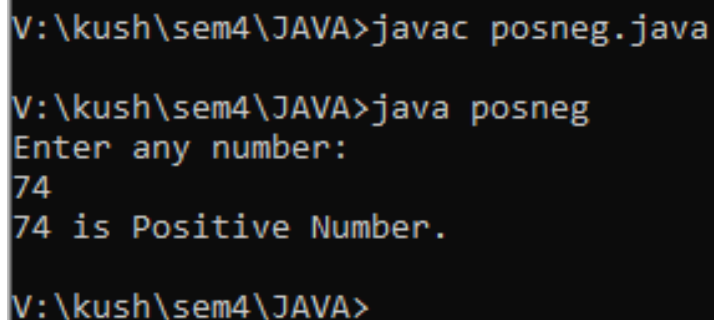


```
V:\kush\sem4\JAVA>javac posneg.java
V:\kush\sem4\JAVA>java posneg
Enter any number:
74
74 is Positive Number.
V:\kush\sem4\JAVA>_
```

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 year:");
        a=s.nextInt();
        if(a%4==0)
            System.out.println(a+" is Leap year.");
        else
            System.out.println(a+" is not Leap year.");
    }
}
```



```
V:\kush\sem4\JAVA>javac posneg.java
V:\kush\sem4\JAVA>java posneg
Enter any number:
74
74 is Positive Number.
V:\kush\sem4\JAVA>
```

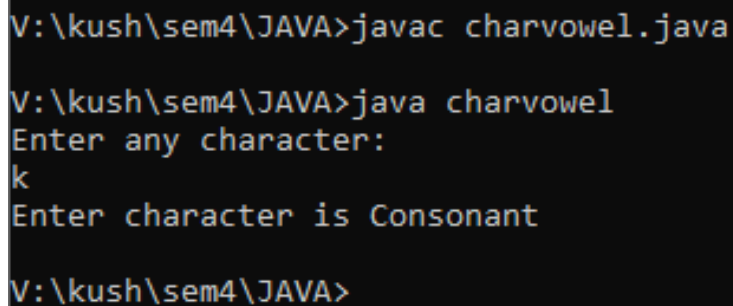
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6. Write a program to take command line input and find the character is vowel or Not.

```
import java.util.Scanner;

class charvowel
{
    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");
    }
}
```

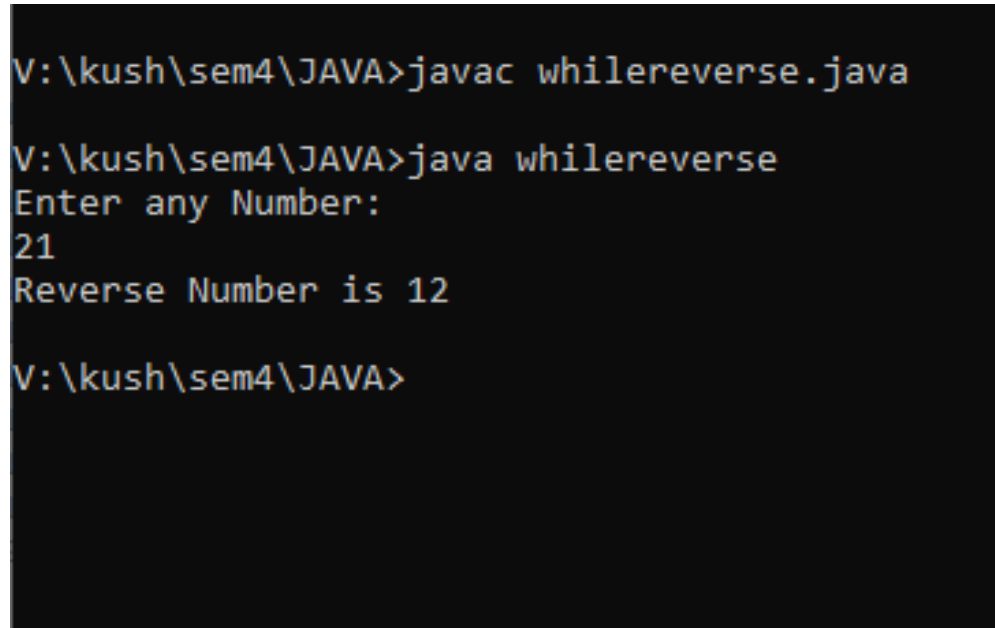


```
V:\kush\sem4\JAVA>javac charvowel.java
V:\kush\sem4\JAVA>java charvowel
Enter any character:
k
Enter character is Consonant
V:\kush\sem4\JAVA>
```

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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,temp=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;
            temp=temp*10+r;
            a=a/10;
        }
        System.out.println("Reverse Number is " +temp);
    }
}
```



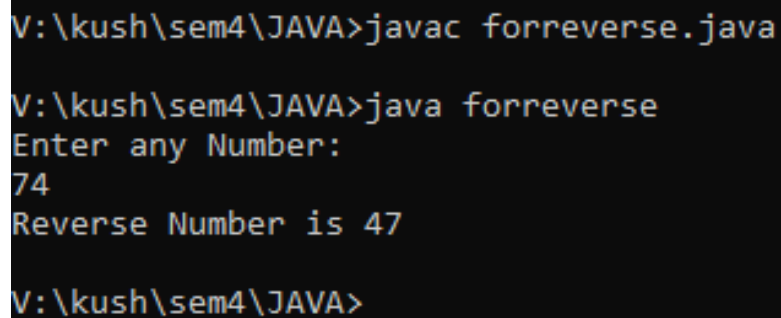
```
V:\kush\sem4\JAVA>javac whilereverse.java

V:\kush\sem4\JAVA>java whilereverse
Enter any Number:
21
Reverse Number is 12

V:\kush\sem4\JAVA>
```

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,sum=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;
            sum=sum*10+r;
            a=a/10;
        }
        System.out.println("Reverse Number is " +sum);
    }
}
```



```
V:\kush\sem4\JAVA>javac forreverse.java

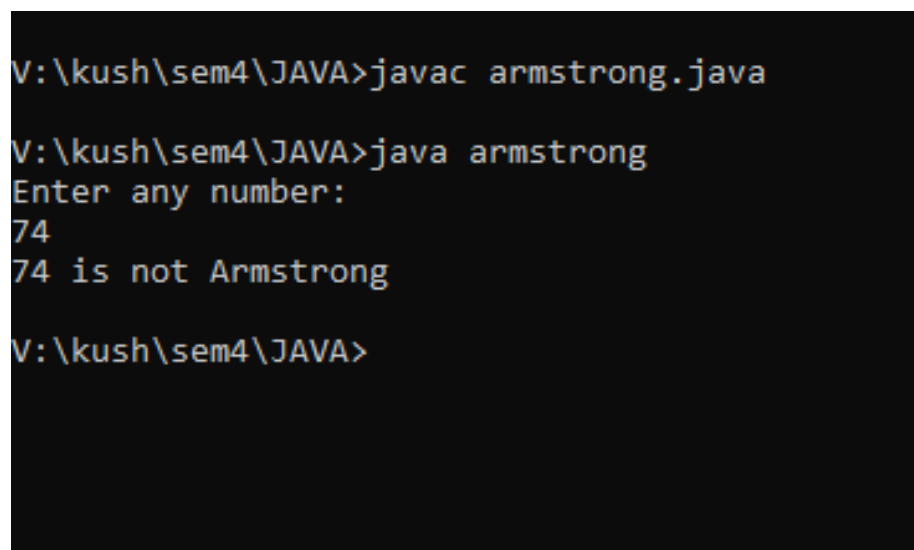
V:\kush\sem4\JAVA>java forreverse
Enter any Number:
74
Reverse Number is 47

V:\kush\sem4\JAVA>
```


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9. Write a program to check Armstrong or not.

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



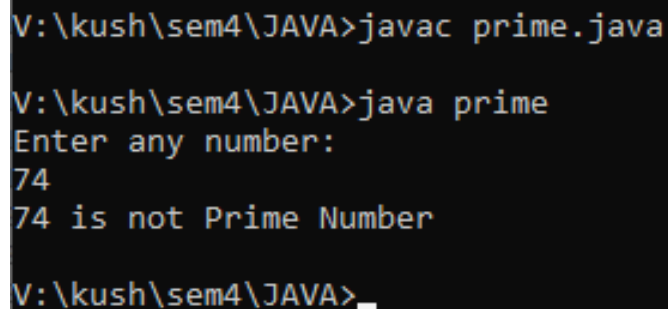
```
V:\kush\sem4\JAVA>javac armstrong.java

V:\kush\sem4\JAVA>java armstrong
Enter any number:
74
74 is not Armstrong

V:\kush\sem4\JAVA>
```

10. Write to program check prime number or not.

```
import java.util.Scanner;
class prime
{
    public static void main(String args[])
    {
        int a,i,sum=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)
            {
                sum=1;
                break;
            }
        }
        if(sum==1)
            System.out.println(a+" is not Prime Number");
        else
            System.out.println(a+" is Prime Number");
    }
}
```



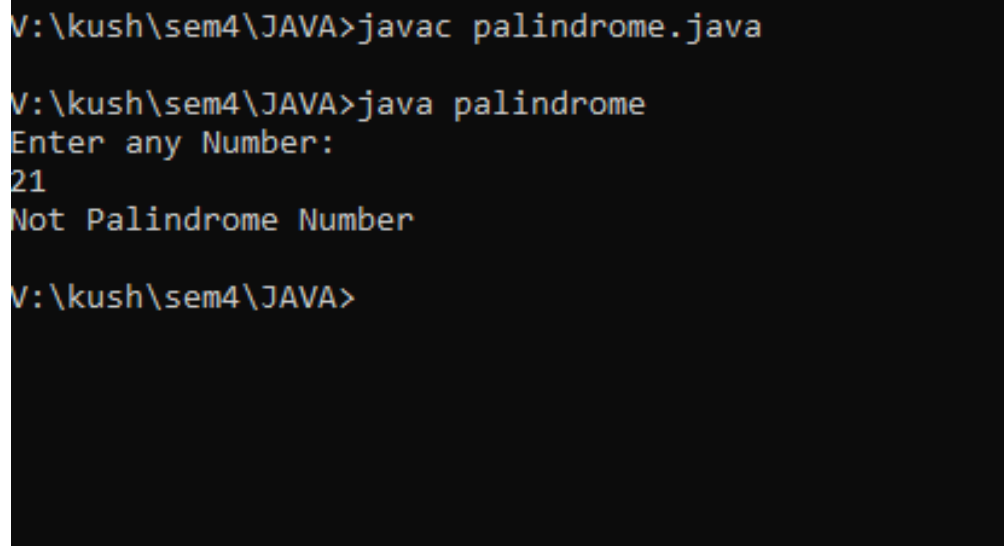
```
V:\kush\sem4\JAVA>javac prime.java

V:\kush\sem4\JAVA>java prime
Enter any number:
74
74 is not Prime Number

V:\kush\sem4\JAVA>_
```

11. Write a program to check number is palindrome or not.

```
import java.util.Scanner;
class palindrome
{
    public static void main(String args[])
    {
        int i,n,temp,sum=0;
        Scanner S=new Scanner(System.in);
        System.out.println("Enter any Number: ");
        n=S.nextInt();
        temp=n;
        while(n>0)
        {
            i=n%10;
            sum=(sum*10)+i;
            n=n/10;
        }
        if(temp==sum)
            System.out.println("Palindrome Number");
        else
            System.out.println("Not Palindrome Number");
    }
}
```



```
V:\kush\sem4\JAVA>javac palindrome.java

V:\kush\sem4\JAVA>java palindrome
Enter any Number:
21
Not Palindrome Number

V:\kush\sem4\JAVA>
```

12. Star Pattern

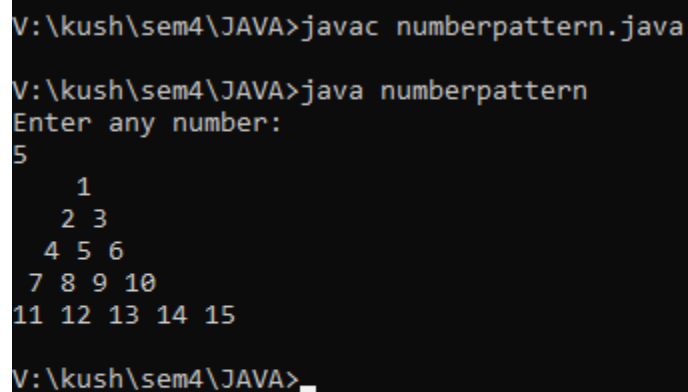
```
*  
**  
***  
****  
*****
```

```
import java.util.Scanner;  
class starpattern  
{  
    public static void main(String args[])  
    {  
        int n,i,j;  
        Scanner s=new Scanner(System.in);  
        System.out.println("Enter number of rows you want to print:");  
        n=s.nextInt();  
        for(i=0;i<=n;i++)  
        {  
            for(j=1;j<=i;j++)  
            {  
                System.out.print("*");  
            }  
            System.out.println("");  
        }  
    }  
}
```

```
V:\kush\sem4\JAVA>java starpattern  
Enter number of rows you want to print:  
10  
  
*  
**  
***  
****  
*****  
*****  
*****  
*****  
*****  
*****  
*****  
  
V:\kush\sem4\JAVA>_
```

13. Number Pattern Pyramid

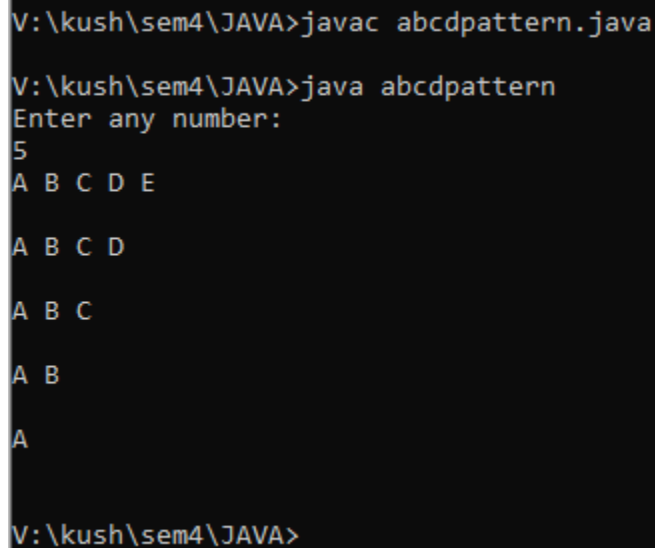
```
import java.util.Scanner;
class numberpattern
{
    public static void main(String args[])
    {
        int r,i,j,counter=1;
        Scanner s=new Scanner(System.in);
        System.out.println("Enter any number:");
        r=s.nextInt();
        for(i=0;i<r;i++)
        {
            for(j = 0;j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



```
V:\kush\sem4\JAVA>javac numberpattern.java
V:\kush\sem4\JAVA>java numberpattern
Enter any number:
5
    1
   2 3
  4 5 6
 7 8 9 10
11 12 13 14 15
V:\kush\sem4\JAVA>_
```

14. ABCD Pattern Pyramid

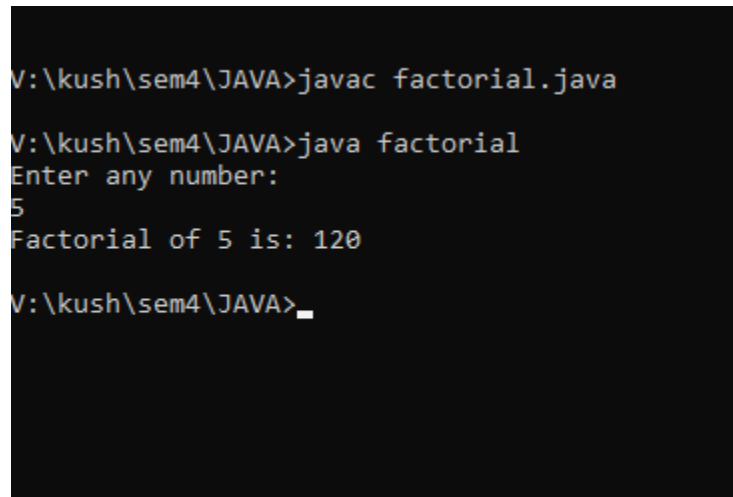
```
import java.util.Scanner;
class abcdpattern
{
    public static void main(String args[])
    {
        int a,i,j=0;
        char c;
        Scanner s=new Scanner(System.in);
        System.out.println("Enter any number:");
        a=s.nextInt();
        for(j=a;j>=1;j--)
        {
            c='A';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



```
V:\kush\sem4\JAVA>javac abcdpattern.java
V:\kush\sem4\JAVA>java abcdpattern
Enter any number:
5
A B C D E
A B C D
A B C
A B
A
V:\kush\sem4\JAVA>
```

15. Factorial Number Of Entered Number.

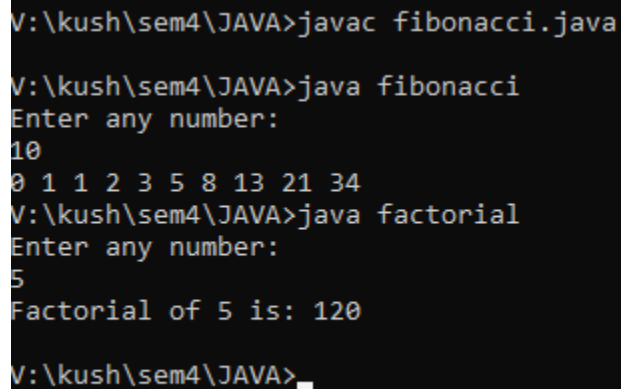
```
import java.util.Scanner;
class factorial
{
    public static void main(String args[])
    {
        int a,i,fact=1;
        Scanner s=new Scanner(System.in);
        System.out.println("Enter any number:");
        a=s.nextInt();
        for(i=1;i<=a;i++)
        {
            fact=fact*i;
    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



```
V:\kush\sem4\JAVA>javac factorial.java
V:\kush\sem4\JAVA>java factorial
Enter any number:
5
Factorial of 5 is: 120
V:\kush\sem4\JAVA>_
```

16. Fibonacci Series Of Entered Number.

```
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;
        }
    }
}
```



```
V:\kush\sem4\JAVA>javac fibonacci.java

V:\kush\sem4\JAVA>java fibonacci
Enter any number:
10
0 1 1 2 3 5 8 13 21 34
V:\kush\sem4\JAVA>java factorial
Enter any number:
5
Factorial of 5 is: 120

V:\kush\sem4\JAVA>_
```