Pattern Program-

```
****

****

****

****
```

```java
class StarPattern1 {
public static void main(String args[]) {
        for(int i=1;i<=4;i++)
         {
             for(int j=1;j<=4;j++)
             {
              System.out.print("*");
              }
              System.out.println();
          }
        }
}
```
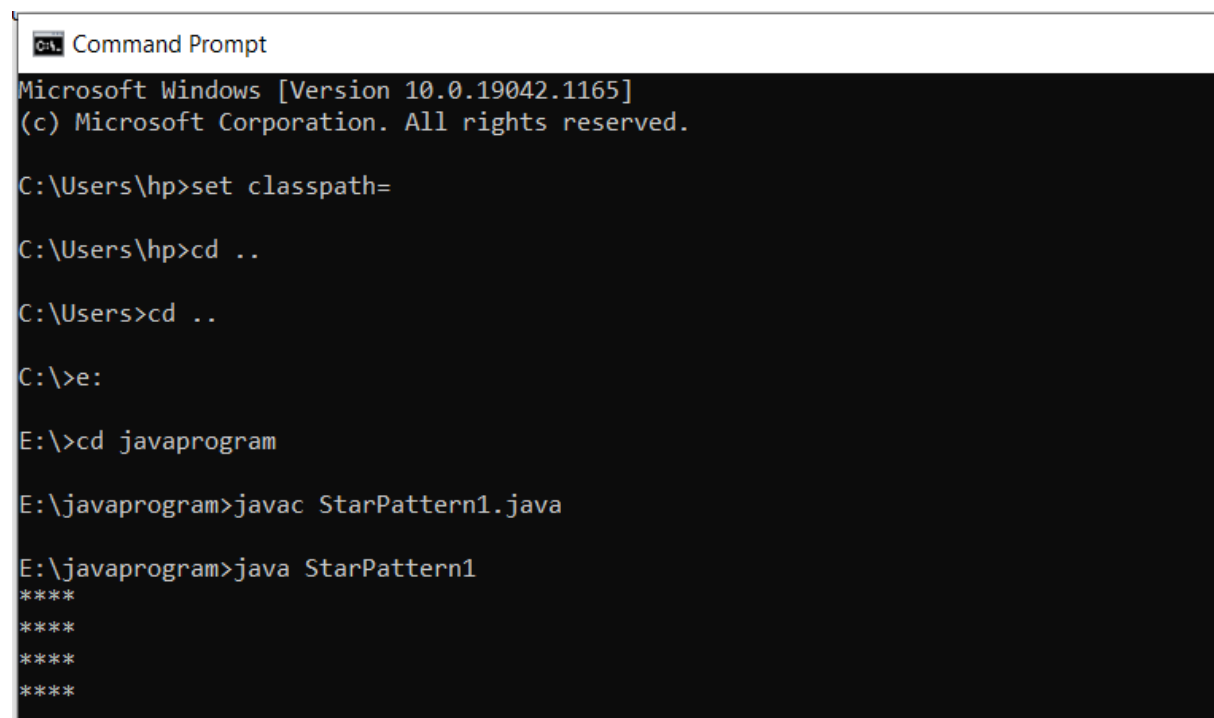
OUTPUT-

```
*
**
***
****
*****
```
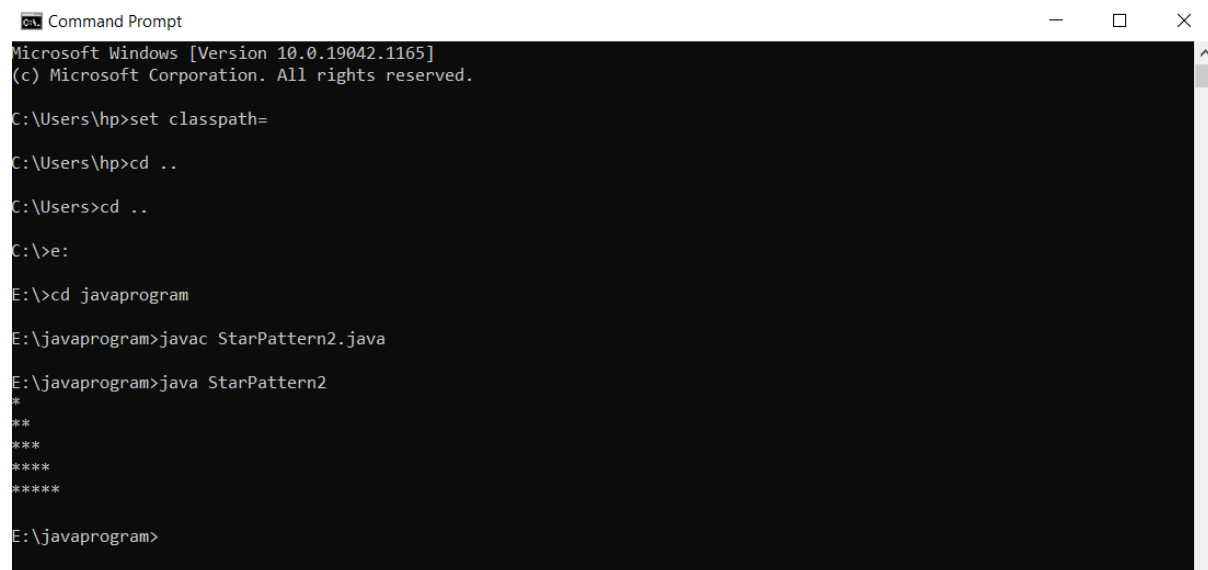
class StarPattern2

{

public static void main(String args[])

        {

                for(int i=1;i<=5;i++)

          {

              for(int j=1;j<=i;j++)

              {

               System.out.print("*");

               }

               System.out.println();

           }

          }

}

OUTPUT-

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

class StarPattern3

{

      public static void main(String args[])

      {

           for(int i=1;i<=5;i++)

    {

       for(int j=1;j<=i;j++)

        {

            System.out.print(" ");

      }

     for(int k=5;k>=i;k--)

    {

        System.out.print("*");

}

     for(int l=4;l>=i;l--)

{

System.out.print("*");

   }

    System.out.println();
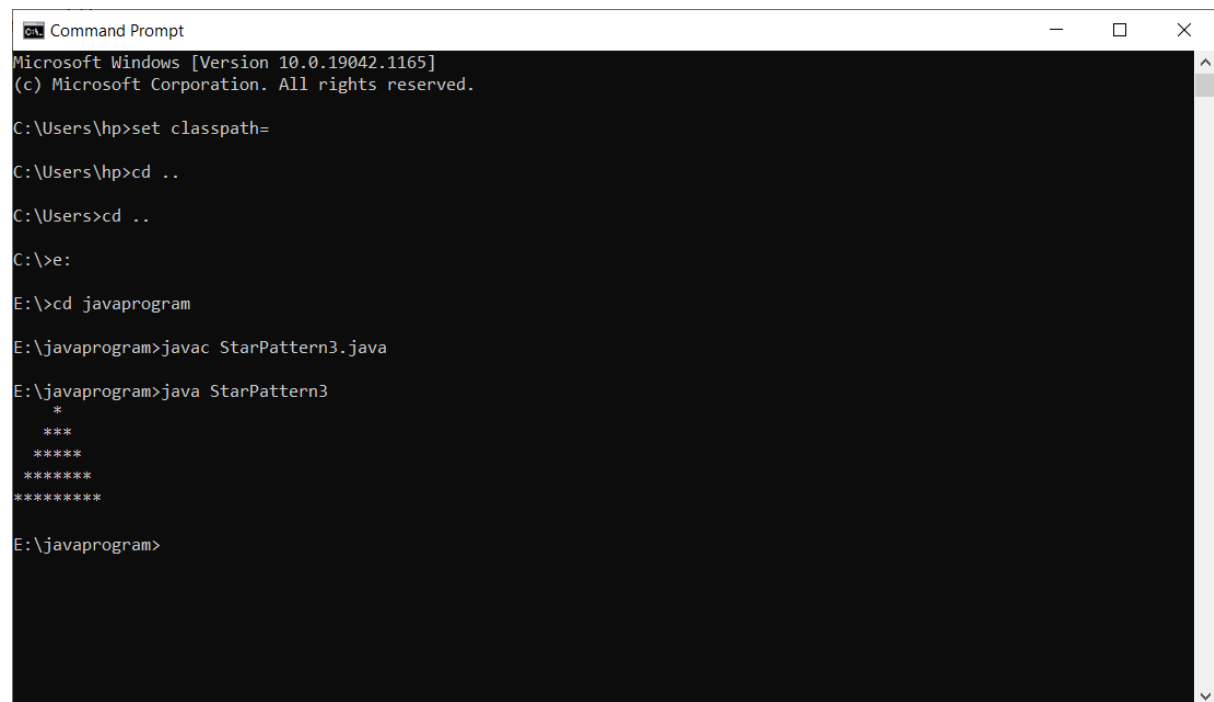
   }

   }

}

OUTPUT-


```
Command Prompt                                                    —    □    ×

Microsoft Windows [Version 10.0.19042.1165]
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C:\Users\hp>set classpath=

C:\Users\hp>cd ..

C:\Users>cd ..

C:\>e:

E:\>cd javaprogram

E:\javaprogram>javac StarPattern3.java

E:\javaprogram>java StarPattern3
      *
    ***
   *****
  *******
*********

E:\javaprogram>
```

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

class StarPattern4

{

      public static void main(String args[])

      {

           for(int i=1;i<=5;i++)

    {

      for(int j=1;j<=i;j++)

      {

         System.out.print(" ");

    }

    for(int k=5;k>=i;k--)

    {

        System.out.print("*");

  }

    for(int l=4;l>=i;l--)

  {

  System.out.print("*");

  }

   System.out.println();

  }

  }

}
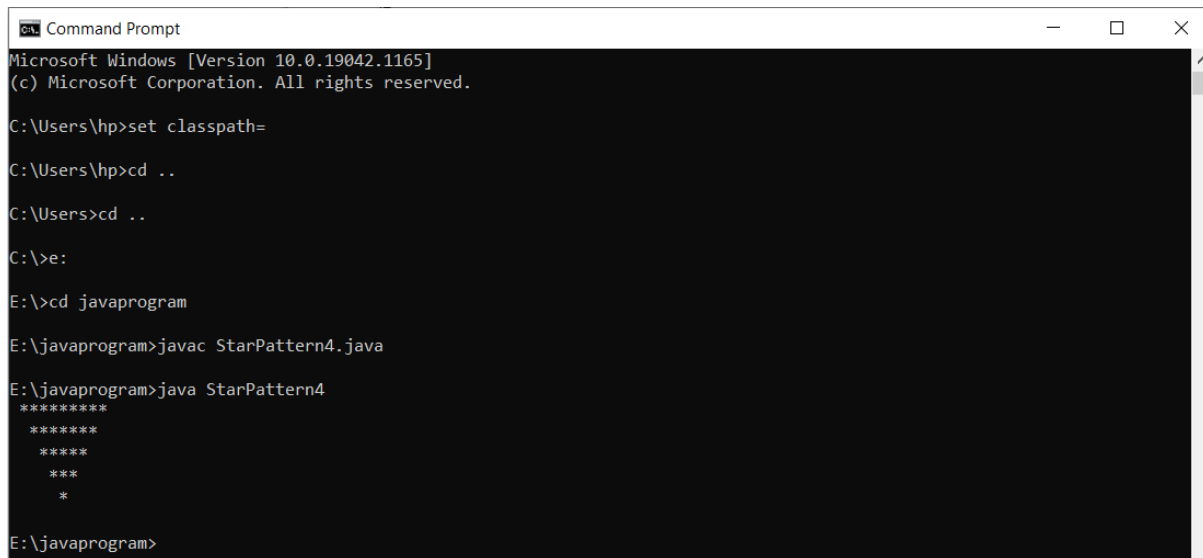
OUTPUT-

```
Command Prompt                                                  —    □    ×

Microsoft Windows [Version 10.0.19042.1165]
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C:\Users\hp>set classpath=

C:\Users\hp>cd ..

C:\Users>cd ..

C:\>e:

E:\>cd javaprogram

E:\javaprogram>javac StarPattern4.java

E:\javaprogram>java StarPattern4
 *********
  *******
   *****
    ***
     *

E:\javaprogram>
```

1

01

101

0101

10101

```java
class StarPattern5
{
    public static void main(String args[])
    {
      int i,j;
       for(i=1;i<=5;i++)
      {
        for(j=i;j>=1;j--)
        {


            if(j%2==0)
            {
             System.out.print("0");
            }
             else
            {
                System.out.print("1");
            }
        }
         System.out.println();
      }
    }
}
```

OUTPUT-

```
Command Prompt                                                    —    □    ✕

Microsoft Windows [Version 10.0.19042.1165]
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C:\Users\hp>set classpath=

C:\Users\hp>cd ..

C:\Users>cd ..

C:\>e:

E:\>cd javaprogram

E:\javaprogram>javac StarPattern5.java

E:\javaprogram>java StarPattern5
1
01
101
0101
10101

E:\javaprogram>
```

1

10

101

1010

10101

```java
class StarPattern6
{
        public static void main(String args[])
        {
                int i,j;
                for(i=1;i<=5;i++)
                {

                        for(j=1;j<=i;j++)
                        {
                                if(j%2==0)
                                {
                                System.out.print("0");
                                }
                                else
                                {
                                        System.out.print("1");
                                }
                        }
                        System.out.println();
                }
        }
}
```
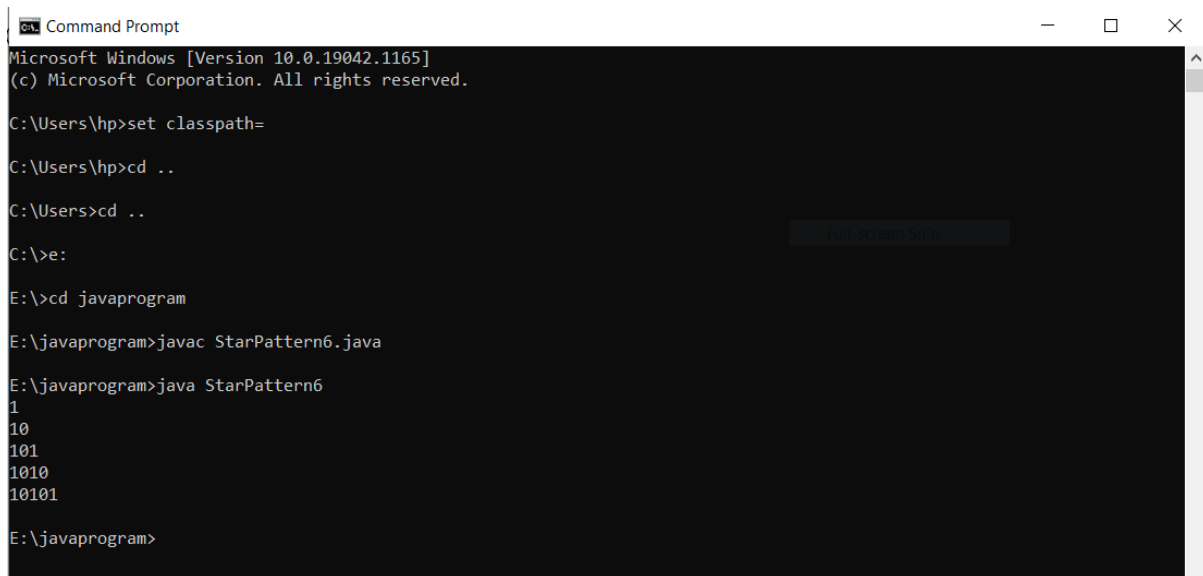
OUTPUT-

```
Command Prompt                                                    —    □    ×

Microsoft Windows [Version 10.0.19042.1165]
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C:\Users\hp>set classpath=

C:\Users\hp>cd ..

C:\Users>cd ..

C:\>e:

E:\>cd javaprogram

E:\javaprogram>javac StarPattern6.java

E:\javaprogram>java StarPattern6
1
10
101
1010
10101

E:\javaprogram>
```

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

```java
class StarPattern7
{
        public static void main(String args[])
        {
                for(int i=1;i<=5;i++)
         {
            for(int j=1;j<i;j++)
            {


                        System.out.print(" ");
             }


            for(int k=i;k<=5;k++)
            {

              System.out.print("*");
            }
                        System.out.println();
          }
        }
}
```

```
Command Prompt                                                      —    □    ✕

Microsoft Windows [Version 10.0.19042.1165]
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C:\Users\hp>set classpath=

C:\Users\hp>cd ..

C:\Users>e:

E:\>cd javaprogram

E:\javaprogram>javac StarPattern7.java

E:\javaprogram>java StarPattern7
*****
 ****
  ***
   **
    *

E:\javaprogram>
```

Even_Odd Program-

```java
import java.util.*;

class Even_Odd
{
public static void main(String[] args)
{
int n,sq,cb;
Scanner sc=new Scanner(System.in);
System.out.println("Enter a number");
n=sc.nextInt();

if(n%2==0)
{
sq=n*n;
System.out.println("The square is="+sq);
}
else
{
System.out.println("Enter Even Number");
}
System.out.println("Enter a number");
n=sc.nextInt();
if(n%2==1)
{
cb=n*n*n;
System.out.println("The cube is="+cb);
}
else
{
System.out.println("Enter odd Number");
}
```

```
}

}
```

OUTPUT-

C:\Windows\System32\cmd.exe

```
Microsoft Windows [Version 10.0.19042.1288]
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E:\javaprogram>set classpath=

E:\javaprogram>javac Even_Odd.java

E:\javaprogram>java Even_Odd
Enter a number
2
The square is=4
Enter a number
3
The cube is=27

E:\javaprogram>
```

Vowel and Consonant

```java
import java.util.*;

class Vowel
{
public static void main(String[] args)
{
char ch;
Scanner sc=new Scanner(System.in);
System.out.println("Enter any Character");
ch=sc.next().charAt(0);
if(ch=='a'||ch=='e'||ch=='i'||ch=='o'||ch=='u'||ch=='A'||ch=='E'||ch=='I'||ch=='O'||ch=='U')
{
System.out.println(ch+" Letter is Vowel");
}
else if((ch>='A' && ch<='Z')||(ch>='a' && ch<='z'))
{
System.out.println(ch+" Letter is Consonant");
}
else
{
System.out.println(ch+" is not an Letter");
}
}
}
```

OUTPUT:

```
C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.19042.1288]
(c) Microsoft Corporation. All rights reserved.

E:\javaprogram>set classpath=

E:\javaprogram>javac Vowel.java

E:\javaprogram>java Vowel
Enter any Character
a
a Letter is Vowel

E:\javaprogram>javac Vowel.java

E:\javaprogram>java Vowel
Enter any Character
G
G Letter is Consonant

E:\javaprogram>javac Vowel.java

E:\javaprogram>java Vowel
Enter any Character
A
A Letter is Vowel

E:\javaprogram>
```

Display the name of month

```java
import java.util.*;
class Month {
public static void main(String[] args) {
Scanner sc=new Scanner(System.in);
int n;
System.out.println("Month Number");
n=sc.nextInt();
switch(n)  {
case 1:
    System.out.print("\n January");
    break;
case 2:
    System.out.print("\n February");
    break;
case 3:
    System.out.print("\n March");
    break;
case 4:
    System.out.print("\n April");
    break;
case 5:
    System.out.print("\n May");
    break;
case 6:
    System.out.print("\n June");
    break;
case 7:
    System.out.print("\n July");
    break;
```

```java
case 8:

    System.out.print("\n August");

    break;

case 9:

    System.out.print("\n September");

    break;

case 10:

    System.out.print("\n October");

    break;

case 11:

    System.out.print("\n November");

    break;

case 12:

    System.out.print("\n December");

    break;

default:

    System.out.print("\n Invalid Month Number");

    break;

}}}
```
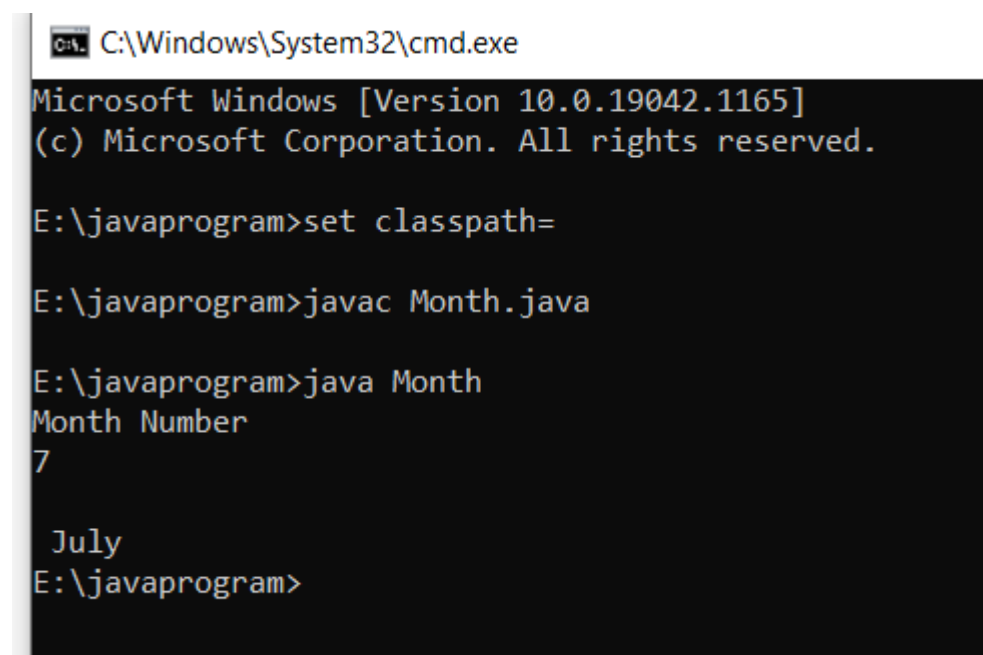
OUTPUT:

Greater between 5 number

```java
import java.util.*;

class Greater_No
{
public static void main(String[] args)
{
int a,b,c,d,e;
System.out.println("Enter 5 Number");
Scanner sc=new Scanner(System.in);
a=sc.nextInt();
b=sc.nextInt();
c=sc.nextInt();
d=sc.nextInt();
e=sc.nextInt();
{

if(a>b && a>c && a>d && a>e)
{
System.out.println(a+" is the largest Number");
}
else if(b>c && b>d && b>e)
{
System.out.println(b+" is the largest Number");
}
else if(c>d && c>e)
{
System.out.println(c+" is the largest Number");
}
else if(d>e)
{
```

```java
System.out.println(d+" is the largest Number");

}

else

{

System.out.println(e+" is the largest Number");

}

}

}

}
```

OUTPUT:

C:\Windows\System32\cmd.exe

```
Microsoft Windows [Version 10.0.19042.1288]
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E:\javaprogram>set classpath=

E:\javaprogram>javac Greater_No.java

E:\javaprogram>java Greater_No
Enter 5 Number
45
65
89
54
32
89 is the largest Number

E:\javaprogram>
```

Number is even than display the square and odd display the cube:

```java
import java.util.*;
class Even

{
public static void main(String[] args)
{
int n,sq,cb;
Scanner sc=new Scanner(System.in);
System.out.println("Enter a number");
n=sc.nextInt();

if(n%2==0)
{
sq=n*n;
System.out.println("The square is="+sq);
}
else
{
System.out.println("Enter Even Number");
}
System.out.println("Enter a number");
n=sc.nextInt();
if(n%2==1)
{
cb=n*n*n;
System.out.println("The cube is="+cb);
}
else
{
System.out.println("Enter odd Number");
```
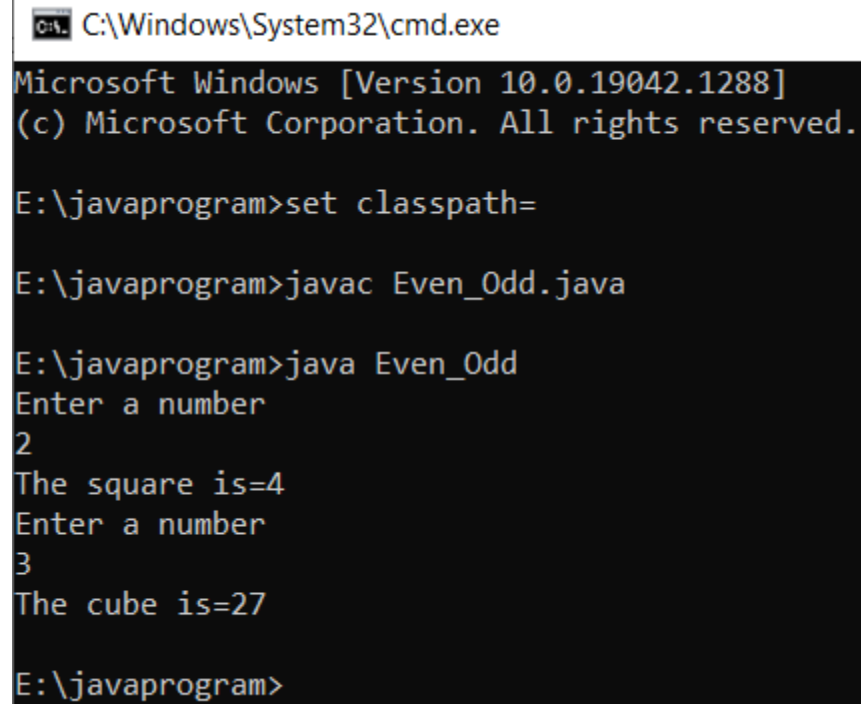
```
    }

  }

}
```

OUTPUT:

```
C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.19042.1288]
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E:\javaprogram>set classpath=

E:\javaprogram>javac Even_Odd.java

E:\javaprogram>java Even_Odd
Enter a number
2
The square is=4
Enter a number
3
The cube is=27

E:\javaprogram>
```

Restaurant Menu Card-

```java
import java.util.*;
 class Restaurants
{
  public static void main(String[] args) {
   Scanner sc = new Scanner(System.in);
     int sum=0,ans;
     boolean quit=false;
     int Idli=100,Dosa=200,ColdDrink=300,Juice=100;
     String order="";
      do{
        System.out.println("ITEM"+"\t\tPrice");
        System.out.println("1.Idli"+"\t\t"+  "100");
        System.out.println("2.Dosa"+"\t\t"+  "200");
        System.out.println("3.ColdDrink"+"\t"+"300");
        System.out.println("4.Juice"+"\t\t"+  "100");
        System.out.println("5.Quit");

        int choice=sc.nextInt();

        switch(choice){
          case 1:
              System.out.println("Idli"+"\t\t"+100+"\n");
              sum=sum+Idli;
              order=order.concat("Idli"+"\t\t"+  100+"\n");

             break;
          case 2:
              System.out.println("Dosa"+"\t\t"+200+"\n");
              sum=sum+Dosa;
              order=order.concat("Dosa"+"\t\t"+  200+"\n");
```

```java
            break;
        case 3:
            System.out.println("ColdDrink"+"\t"+300+"\n");
            sum=sum+ColdDrink;
            order=order.concat("ColdDrink"+"\t"+300+"\n");
            break;
        case 4:
            System.out.println("Juice"+"\t\t"+100+"\n");
            sum=sum+Juice;
            order=order.concat("Juice"+"\t\t"+  100+"\n");
            break;
        case 5:
            quit=true;

            break;
        default:
            System.out.println("Invalid choice");
    }
    System.out.println("Do you want to add more items y/n");
    ans=sc.next().charAt(0);

}
while(ans=='y');

System.out.println("Your Orders are:\n"+order);
System.out.println("Your total bill="+sum);

System.out.println("Thank you");
}
}
```

OUTPUT-

Profit_Loss-

```java
import java.util.*;

class Profit_Loss
{
public static void main(String args[])
{
int cp,sp,pa,la;

Scanner sc=new Scanner(System.in);

System.out.print("Enter the Cost Price : ");
cp=sc.nextInt();
System.out.print("Enter the Selling Price : ");
sp=sc.nextInt();

if(sp>cp)
{
pa=sp-cp;
System.out.print("The profit amount is : "+pa);
}
else if(sp<cp)
{
la=cp-sp;
System.out.print("The loss amount is : "+la);
}
else
{
System.out.println("Not Profit Nor Loss");
}
}
```

}

OUTPUT-

```
Command Prompt

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C:\Users\hp>set classpath=

C:\Users\hp>cd ..

C:\Users>cd ..

C:\>e:

E:\>cd javaprogram

E:\javaprogram>javac Profit_Loss.java

E:\javaprogram>java Profit_Loss
Enter the Cost Price : 650
Enter the Selling Price : 780
The profit amount is : 130
E:\javaprogram>java Profit_Loss
Enter the Cost Price : 650
Enter the Selling Price : 300
The loss amount is : 350
E:\javaprogram>
```