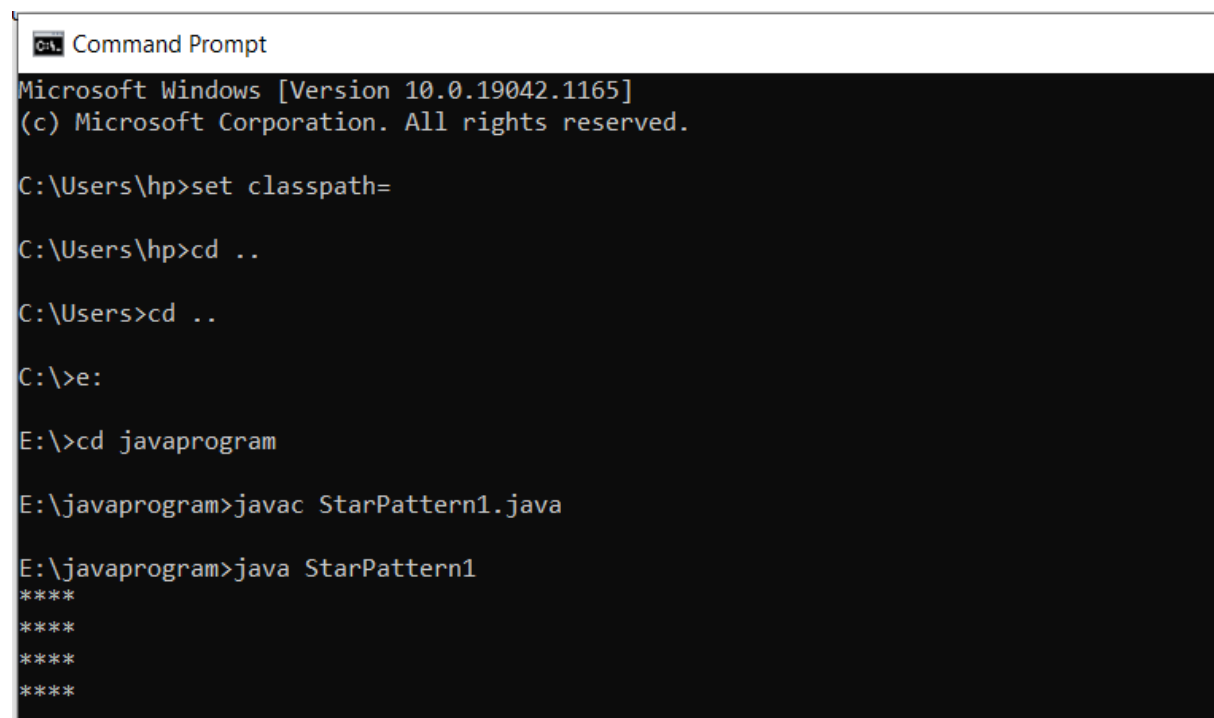


Pattern Program-

```
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-



```
Command Prompt  
Microsoft Windows [Version 10.0.19042.1165]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Users\hp>set classpath=  
  
C:\Users\hp>cd ..  
  
C:\Users>cd ..  
  
C:\>e:  
  
E:\>cd javaprogram  
  
E:\javaprogram>javac StarPattern1.java  
  
E:\javaprogram>java StarPattern1  
****  
****  
****  
****
```

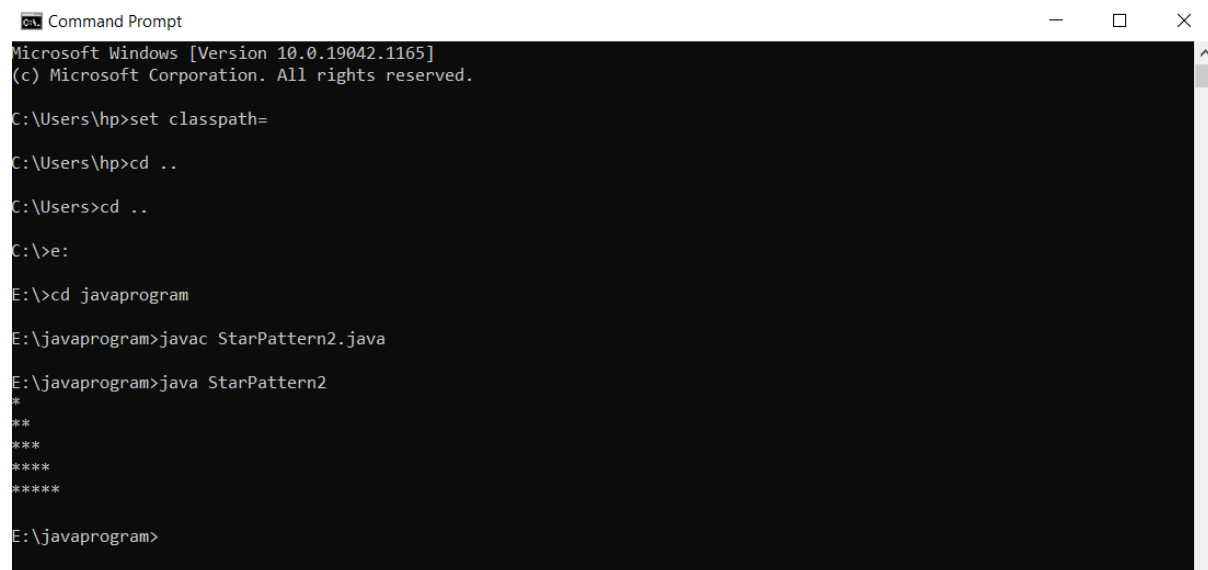
```

*
**
***
****
*****

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-



```

C:\Users\hp>set classpath=
C:\Users\hp>cd ..
C:\Users>cd ..
C:\>e:
E:\>cd javaprogram
E:\javaprogram>javac StarPattern2.java
E:\javaprogram>java StarPattern2
*
**
***
****
*****
E:\javaprogram>

```

```

      *
    ***
  *****
*****
*****

```

```

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("*");

            }

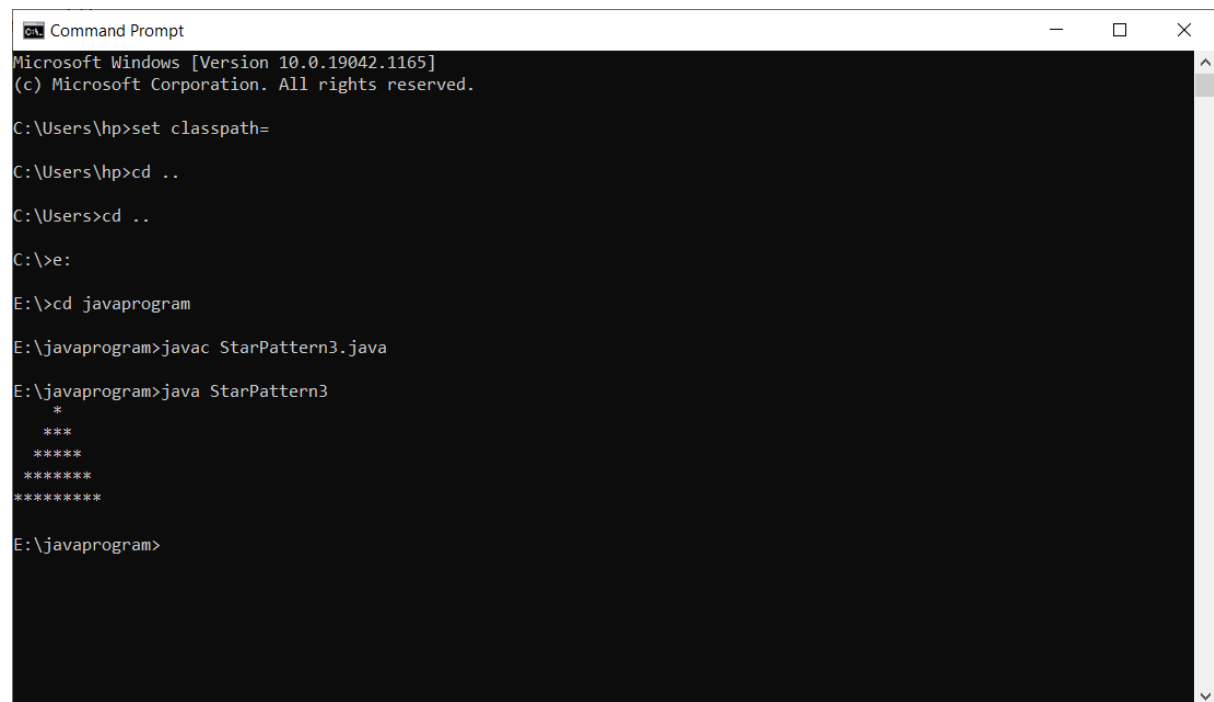
            System.out.println();

        }

    }
}

```

OUTPUT-



```
Command Prompt
Microsoft Windows [Version 10.0.19042.1165]
(c) Microsoft Corporation. All rights reserved.

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("*");
```

```
            }
```

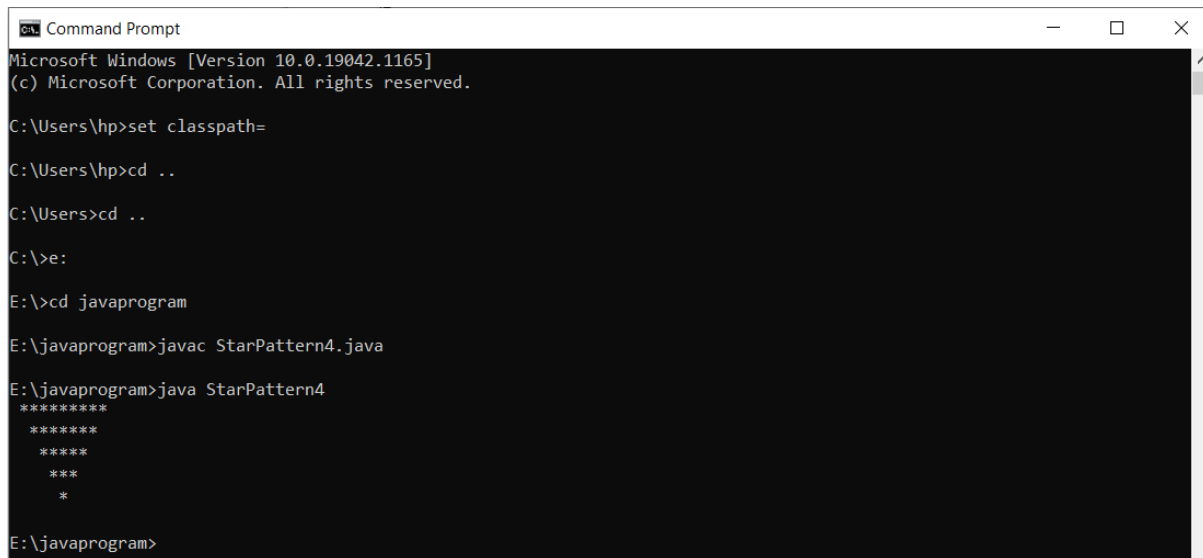
```
                System.out.println();
```

```
            }
```

```
        }
```

```
    }
```

OUTPUT-



```
Command Prompt
Microsoft Windows [Version 10.0.19042.1165]
(c) Microsoft Corporation. All rights reserved.

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

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]
(c) Microsoft Corporation. All rights reserved.

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>
```

The screenshot shows a Windows Command Prompt window with a dark background. The title bar reads "Command Prompt". The window displays the following commands and their outputs:
1. `Microsoft Windows [Version 10.0.19042.1165]` and `(c) Microsoft Corporation. All rights reserved.` are shown at the top.
2. The prompt is `C:\Users\hp>`. The command `set classpath=` is entered, resulting in no visible output.
3. The prompt is `C:\Users\hp>`. The command `cd ..` is entered, resulting in no visible output.
4. The prompt is `C:\Users>`. The command `cd ..` is entered, resulting in no visible output.
5. The prompt is `C:\>`. The command `e:` is entered, resulting in no visible output.
6. The prompt is `E:\>`. The command `cd javaprogram` is entered, resulting in no visible output.
7. The prompt is `E:\javaprogram>`. The command `javac StarPattern5.java` is entered, resulting in no visible output.
8. The prompt is `E:\javaprogram>`. The command `java StarPattern5` is entered, resulting in the output:
1
01
101
0101
10101
9. The prompt is `E:\javaprogram>`.

1

10

101

1010

10101

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");

 }

 }

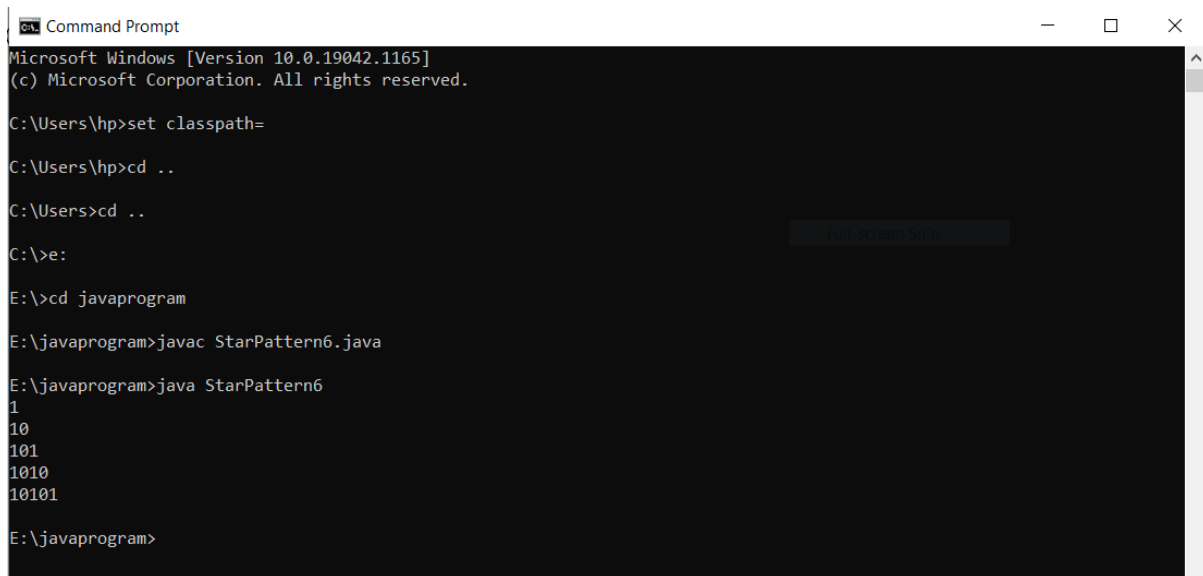
 System.out.println();

 }

}

}

OUTPUT-



The screenshot shows a Windows Command Prompt window titled "Command Prompt". The window displays the following text:

```
Microsoft Windows [Version 10.0.19042.1165]
(c) Microsoft Corporation. All rights reserved.

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>
```

A "Full-screen Snip" button is visible on the right side of the window.

**

*

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]
(c) Microsoft Corporation. All rights reserved.

C:\Users\hp>set classpath=

C:\Users\hp>cd ..

C:\Users>e:

E:\>cd javaprogram

E:\javaprogram>javac StarPattern7.java

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

Even_Odd Program-

```
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]
(c) Microsoft Corporation. All rights reserved.

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

```
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

```
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;
```

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:

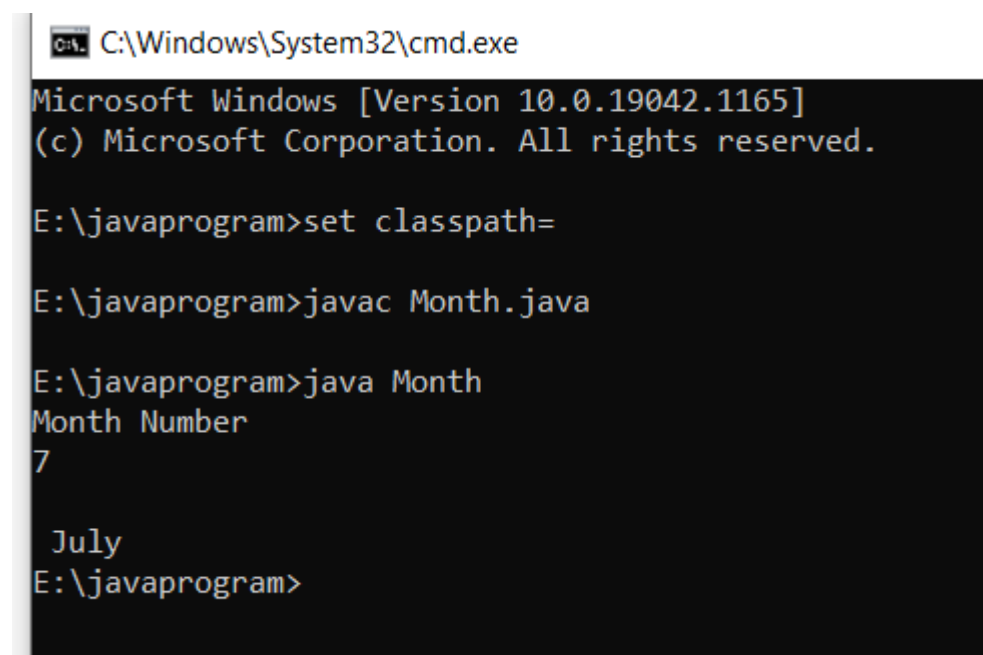
```
System.out.print("\n December");  
  
break;
```

default:

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

}}}

OUTPUT:



```
C:\Windows\System32\cmd.exe  
Microsoft Windows [Version 10.0.19042.1165]  
(c) Microsoft Corporation. All rights reserved.  
  
E:\javaprogram>set classpath=  
  
E:\javaprogram>javac Month.java  
  
E:\javaprogram>java Month  
Month Number  
7  
  
July  
E:\javaprogram>
```

Greater between 5 number

```
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)
            {
```

```
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]  
(c) Microsoft Corporation. All rights reserved.  
  
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 then display the square and odd display the cube:

```
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);

}

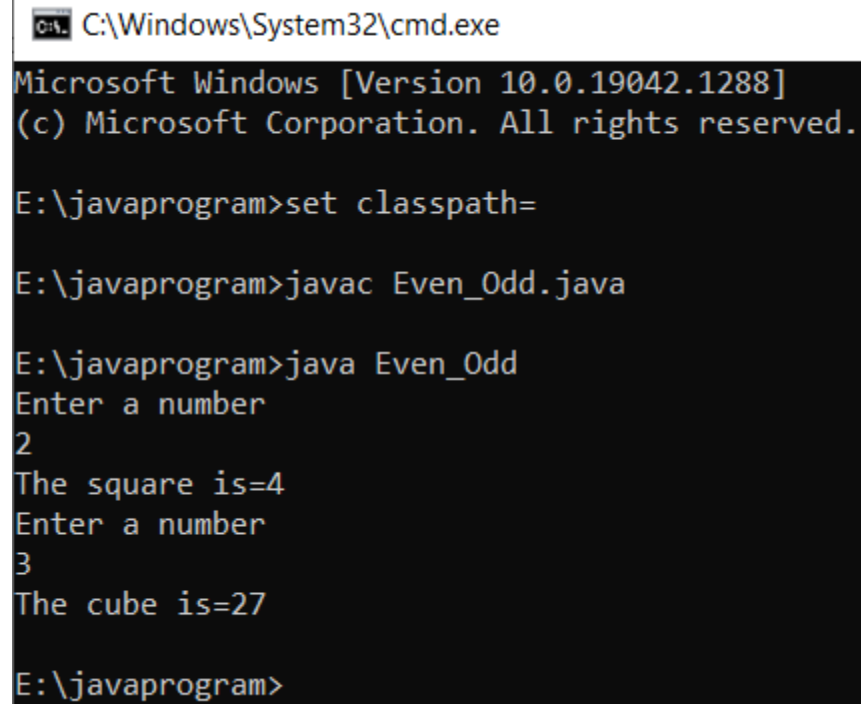
else

{

System.out.println("Enter odd Number");
```

```
}  
}  
}
```

OUTPUT:



The screenshot shows a Windows command prompt window titled "C:\Windows\System32\cmd.exe". The window displays the following text:

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

```
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\\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");
```

```

        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-

```
Command Prompt
Microsoft Windows [Version 10.0.19042.1165]
(c) Microsoft Corporation. All rights reserved.

C:\Users\hp>set classpath=
C:\Users\hp>cd ..
C:\Users\hp>
E:\>cd javaprogram
E:\javaprogram>javac Restaurants.java
E:\javaprogram>java Restaurants
ITEM      Price
1.Idli    100
2.Dosa    200
3.ColdDrink 300
4.Juice    100
5.Quit
1
Idli      100
Do you want to add more items y/n
y
ITEM      Price
1.Idli    100
2.Dosa    200
3.ColdDrink 300
4.Juice    100
5.Quit
2
Dosa      200
Do you want to add more items y/n
y
ITEM      Price
1.Idli    100
2.Dosa    200
3.ColdDrink 300
4.Juice    100
5.Quit
3
ColdDrink 300
Do you want to add more items y/n
y
ITEM      Price
1.Idli    100
2.Dosa    200
```

```
Command Prompt
2
Dosa      200
Do you want to add more items y/n
y
ITEM      Price
1.Idli    100
2.Dosa    200
3.ColdDrink 300
4.Juice    100
5.Quit
3
ColdDrink 300
Do you want to add more items y/n
y
ITEM      Price
1.Idli    100
2.Dosa    200
3.ColdDrink 300
4.Juice    100
5.Quit
4
Juice     100
Do you want to add more items y/n
y
ITEM      Price
1.Idli    100
2.Dosa    200
3.ColdDrink 300
4.Juice    100
5.Quit
5
Do you want to add more items y/n
n
Your Orders are:
Idli      100
Dosa      200
ColdDrink 300
Juice     100

Your total bill=700
Thank you
E:\javaprogram>
```

Profit_Loss-

```
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
Microsoft Windows [Version 10.0.19042.1165]
(c) Microsoft Corporation. All rights reserved.

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>
```