

```
//factorial
import java.io.*;
import java.util.*;
class factorial
{
public static void main(String[] args)
{
int n,i=1,m=1;
System.out.println("enter the number:");
Scanner s = new Scanner(System.in);
n=s.nextInt();
while(i<=n)
{
m=m*i;
i+=1;
}
System.out.println("factorial:" + m);
}}
```

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C:\Users\DELL>javac factorial.java

C:\Users\DELL>java factorial

enter the number:

6

factorial:720

C:\Users\DELL>

```
//factor
import java.io.*;
import java.util.*;
class factor
{
public static void main(String[] args)
{
int m=0,n;
System.out.println("enter the number:");
Scanner s = new Scanner(System.in);
n=s.nextInt();
for(int i=1;i<=n/2;i++)
{
if (n%i==0)
{
m+=1;}}
System.out.println("factor:"+m);
}}
```

```
C:\Users\DELL>java factor
enter the number:
24
factor:7

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```

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```
import java.io.*;
import java.util.*;
class perfectroot
{
public static void main(String[] args)
{
int i,n,m=0;
System.out.println("enter the number:");
Scanner s = new Scanner(System.in);
n=s.nextInt();
for(i=1;i<=n/2;i++)
{
if(i*i==n)
{
System.out.println(i +"\n-"+i);
m+=1;
}}
if(m==0)
System.out.println("it is not perfect root");
}}
```

Microsoft Windows [Version 10.0.19045.4651]
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C:\Users\DELL>javac perfectroot.java

C:\Users\DELL>java perfectroot

enter the number:

6561

81

-81

C:\Users\DELL>

```
import java.io.*;
import java.util.*;
class composite
{
public static void main(String[] args)
{
int i,j;
for(i=100;i<=200;i++){
int n=0;
for(j=2;j<=i/2;j++){
if(i%j==0)
n+=1;}
if(n!=0)
System.out.println(i);
}
}
}
```

C:\Users\DELL>java composite

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C:\Users\DELL>