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

Install the latest PowerShell for new
.ms/PSWindows

PS C:\Users\hesh2> java fact
4
factorial: 24
PS C:\Users\hesh2>

```java
import java.io.*;
import java.util.*;
class factor{
public static void main(String[] args)
{Scanner s= new Scanner(System.in);
int c=0;
int n=s.nextInt();
for(int i=1;i<=n/2;i++)
{if (n%i==0)
c=c+1;
}
System.out.println("no. of factor: "+c);
}}
```

```
PS C:\Users\hesh2> java factor
6
no. of factor: 3
PS C:\Users\hesh2>
```

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

```
PS C:\Users\hesh2> java root
4
2,-2
PS C:\Users\hesh2> java root
9
3,-3
PS C:\Users\hesh2> java root
10
it is not perfect root
PS C:\Users\hesh2>
```

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

```
C:\Users\hesh2>java comp
100 is composite
102 is composite
104 is composite
105 is composite
106 is composite
108 is composite
110 is composite
111 is composite
112 is composite
114 is composite
115 is composite
116 is composite
117 is composite
118 is composite
119 is composite
120 is composite
121 is composite
122 is composite
123 is composite
124 is composite
125 is composite
126 is composite
128 is composite
129 is composite
130 is composite
132 is composite
133 is composite
134 is composite
135 is composite
136 is composite
138 is composite
140 is composite
141 is composite
142 is composite
143 is composite
144 is composite
145 is composite
```