

SDemo1 - Notepad

```
File Edit Format View Help
class Shape
{
void area(int s)
{
System.out.println("Area of Square:"+ (s*s));
}
void area(float r)
{
System.out.println("Area of circle:"+(3.14f*r*r));
}
void area(int l,int b)
{
System.out.println("Area of Rectangle:"+(l*b));
}
}
class SDemo1
{
public static void main(String a[])
{
Shape S=new Shape();
S.area(10);
S.area(10.0f);
S.area(10,20);
}
}
```

Command Prompt

```
67
^Z657
Exception in thread "main" java.util.NoSuchElementException
at java.base/java.util.Scanner.throwFor(Scanner.java:939)
at java.base/java.util.Scanner.next(Scanner.java:1594)
at java.base/java.util.Scanner.nextInt(Scanner.java:2258)
at java.base/java.util.Scanner.nextInt(Scanner.java:2212)
at Average.main(Average.java:14)

C:\Users\ASUS\Desktop\java>javac Average.java
C:\Users\ASUS\Desktop\java>java Average
220,300
300,500
200,1000
Exception in thread "main" java.util.InputMismatchException
at java.base/java.util.Scanner.throwFor(Scanner.java:939)
at java.base/java.util.Scanner.next(Scanner.java:1594)
at java.base/java.util.Scanner.nextInt(Scanner.java:2258)
at java.base/java.util.Scanner.nextInt(Scanner.java:2212)
at Average.main(Average.java:14)

C:\Users\ASUS\Desktop\java>javac SDemo1.java
C:\Users\ASUS\Desktop\java>java SDemo1
Area of Square:100
Area of circle:314.0
Area of Rectangle:200

C:\Users\ASUS\Desktop\java>
```

The image shows a Windows desktop environment with two open windows. On the left is a Notepad window titled "Circle - Notepad" containing Java code for calculating the area and perimeter of a circle. On the right is a Command Prompt window showing the execution of the code and its output.

**Circle - Notepad**

```
File Edit Format View Help
class Circle
{
public static void main(String a[])
{
int radius=10;
final float pi=3.14f;
float area=pi*radius*radius;
System.out.println("Area of circle="+area);
float perimeter=2*pi*radius;
System.out.println("Perimeter of circle="+perimeter);
}
```

**Command Prompt**

```
at java.base/java.util.Scanner.nextInt(Scanner.java:2212)
at Average.main(Average.java:14)
C:\Users\ASUS\Desktop\java>javac Average.java
C:\Users\ASUS\Desktop\java>java Average
220,300
300,500
200,1000
Exception in thread "main" java.util.InputMismatchException
at java.base/java.util.Scanner.throwFor(Scanner.java:939)
at java.base/java.util.Scanner.next(Scanner.java:1594)
at java.base/java.util.Scanner.nextInt(Scanner.java:2258)
at java.base/java.util.Scanner.nextInt(Scanner.java:2212)
at Average.main(Average.java:14)
C:\Users\ASUS\Desktop\java>javac SDemo1.java
C:\Users\ASUS\Desktop\java>java SDemo1
Area of Square:100
Area of circle:314.0
Area of Rectangle:200
C:\Users\ASUS\Desktop\java>javac Circle.java
C:\Users\ASUS\Desktop\java>java Circle
Area of circle=314.0
Perimeter of circle=62.800003
C:\Users\ASUS\Desktop\java>
```

Largest - Notepad

```
File Edit Format View Help
class Largest{
public static void main(String arg[])
{
int x=10;
int y=20;
int z=30;
if(x>y&&x>z)
{
System.out.println("x is largest="+x);
}
else if(y>x&&y>z)
{
System.out.println("y is largest="+y);
}
else
{
System.out.println("z is largest="+z);
}
}
```

Command Prompt

```
at java.base/java.util.Scanner.nextInt(Scanner.java:139)
at java.base/java.util.Scanner.nextInt(Scanner.java:139)
at Average.main(Average.java:14)

C:\Users\ASUS\Desktop\java>javac SDemo1.java

C:\Users\ASUS\Desktop\java>java SDemo1
Area of Square:100
Area of circle:314.0
Area of Rectangle:200

C:\Users\ASUS\Desktop\java>javac Circle.java

C:\Users\ASUS\Desktop\java>java Circle
Area of circle=314.0
Perimeter of circle=62.800003

C:\Users\ASUS\Desktop\java>javac Largest.java

C:\Users\ASUS\Desktop\java>java Largest
z is largest=30

C:\Users\ASUS\Desktop\java>
```

This PC  
Shortcut

Type here to search



The image shows a Windows desktop environment with several open windows:

- Notepad Window:** Titled "Divide - Notepad", it contains the following Java code:

```
class Divide {
    static String isDivisible(long n) {
        long temp = n;
        int sum = 0;
        while (n != 0)
        {
            int k = (int) n % 10;
            sum +=k;
            n /=10;
        }
        if (temp % sum==0)
            return "YES";
        else
            return "NO";
    }
    public static void main(String args[])
    {
        long n = 123;
        System.out.println(isDivisible(n));
    }
}
```
- File Explorer Window:** Titled "java", showing files in the "C:\Users\ASUS\Desktop\java" folder.
- Command Prompt Window:** Titled "Command Prompt", showing the output of Java commands:

```
C:\Users\ASUS\Desktop\java>javac Circle.java
C:\Users\ASUS\Desktop\java>java Circle
Area of circle=314.0
Perimeter of circle=62.800003

C:\Users\ASUS\Desktop\java>javac Largest.java
C:\Users\ASUS\Desktop\java>java Largest
z is largest=30

C:\Users\ASUS\Desktop\java>javac Divide.java
Divide.java:20: error: ';' expected
long n = 0 to 123;
               ^
Divide.java:20: error: not a statement
long n = 0 to 123;
               ^
Divide.java:20: error: ';' expected
long n = 0 to 123;
               ^
3 errors

C:\Users\ASUS\Desktop\java>javac Divide.java
C:\Users\ASUS\Desktop\java>java Divide
NO

C:\Users\ASUS\Desktop\java>
```

The taskbar at the bottom includes icons for File Explorer, File Manager, Edge browser, File Explorer, File Manager, File Explorer, File Manager, and Google Chrome.

Cir - Notepad

```
File Edit Format View Help
import java.util.Scanner;
public class Cir extends Point{

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);
        Point c=new Point();
        c.x=sc.nextDouble();
        c.y=sc.nextDouble();
        Point p=new Point();
        p.x=sc.nextDouble();
        p.y=sc.nextDouble();
        Cir c1=new Cir();
        c1.distance(c,p);
    }
}

class Point {
    double x,y;
    double distance(Point p1, Point p2)
    {
        double result;
        result = Math.sqrt(Math.pow((p2.x - p1.x),2) + Math.pow((p2.y - p1.y),2));
        System.out.print(result);
        return result;
    }
}
```

Command Prompt

```
at java.base/java.util.Scanner.nextDouble(Scanner.java:22)
at Circle.main(Circle.java:9)

C:\Users\ASUS\Desktop\java>javac Cir.java
C:\Users\ASUS\Desktop\java>java Cir
10
20
30
70
53.85164807134504
C:\Users\ASUS\Desktop\java>javac Excercise.java
javac: file not found: Excercise.java
Usage: javac <options> <source files>
use --help for a list of possible options

C:\Users\ASUS\Desktop\java>javac Area.java
javac: file not found: Area.java
Usage: javac <options> <source files>
use --help for a list of possible options

C:\Users\ASUS\Desktop\java>javac Armstrong.java
```

The image shows a Windows desktop environment with two open windows. On the left is a Notepad window titled "Sum - Notepad" containing the following Java code:

```
Sum - Notepad
File Edit Format View Help
import java.util.Scanner;
public class Sum {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        int n=sc.nextInt();
        int sum=0,t;
        for(int i=0;i<=n;i++)
        {
            t = 2*(i-1);
            if(t%3 == 0)
            {
                sum += t;
            }
        }
        System.out.println(sum);
    }
}
```

On the right is a Command Prompt window titled "Command Prompt" showing the execution of the Java program. The session starts with:

```
C:\Users\ASUS\Desktop\java>java Sum
3
0
```

Then, after compilation:

```
C:\Users\ASUS\Desktop\java>javac Sum.java
```

Execution of the compiled program results in an exception:

```
C:\Users\ASUS\Desktop\java>java Sum
3,3
Exception in thread "main" java.util.InputMismatchException
    at java.base/java.util.Scanner.throwFor(Scanner.java:939)
    at java.base/java.util.Scanner.next(Scanner.java:1594)
    at java.base/java.util.Scanner.nextInt(Scanner.java:2258)
    at java.base/java.util.Scanner.nextInt(Scanner.java:2212)
    at Sum.main(Sum.java:5)
```

Finally, the program is run again successfully:

```
C:\Users\ASUS\Desktop\java>javac Sum.java
C:\Users\ASUS\Desktop\java>java Sum
33
330
C:\Users\ASUS\Desktop\java>
```

Armstrong - Notepad

File Edit Format View Help

```
class Armstrong{
    public static void main(String args[])
    {
        int c=0,a,temp;
        int n=153;
        temp=n;
        while(n>0)
        {
            a=n%10;
            n=n/10;
            c=c+(a*a*a);
        }
        if(temp==c)
            System.out.println("armstrong number");
        else
            System.out.println("Not armstrong number");
    }
}
```

Command Prompt

```
at java.base/java.util.Scanner.nextInt
at Sum.main(Sum.java:5)

C:\Users\ASUS\Desktop\java>javac Sum.java
C:\Users\ASUS\Desktop\java>java Sum
33
330

C:\Users\ASUS\Desktop\java>javac Armstrong.java
C:\Users\ASUS\Desktop\java>java Armstrong
armstrong number

C:\Users\ASUS\Desktop\java>
```

Ln 1, Col 1

100%

WIndo

The image shows a Windows desktop environment. On the left is a Notepad window titled "Bike - Notepad" containing Java code. On the right is a Command Prompt window showing the output of the code execution.

**Bike - Notepad**

```
File Edit Format View Help
class Vehicle
{
void run(){System.out.print("Vehicle is running");}
}
class Bike extends Vehicle{
public static void main(String args[]){
Bike obj=new Bike();
obj.run();
}}
```

**Command Prompt**

```
C:\ Command Prompt
Vehicle.java:4: error: <identifier> expected
System.out.println("Vehicle is running");
^
Vehicle.java:4: error: illegal start of type
System.out.println("Vehicle is running");
^
2 errors

C:\Users\ASUS\Desktop\java>javac Bike.java
Bike.java:4: error: <identifier> expected
System.out.print("Vehicle is running");
^
Bike.java:4: error: illegal start of type
System.out.print("Vehicle is running");
^
2 errors

C:\Users\ASUS\Desktop\java>javac Bike.java

C:\Users\ASUS\Desktop\java>java Bike
Vehicle is running
C:\Users\ASUS\Desktop\java>
```

Ln 3, Col 52      100%      Windows (CRLF)