

```
D:\Java\jdk1.8.0_261\bin\prog\ShapeMain.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

1  import java.util.Scanner;
2
3  abstract class shape
4  { int d1,d2;
5    abstract void printarea();
6  }
7
8  class rectangle extends shape
9  { void printarea()
10   { System.out.println("\nArea: "+(d1*d2));}
11 }
12
13 class triangle extends shape
14 { void printarea()
15   { System.out.println("\nArea: "+(d1*d2/2)); }
16 }
17
18 class circle extends shape
19 { void printarea()
20   { System.out.println("\nArea: "+ (3.1415*d1*d1)); }
21 }
22
23 class ShapeMain
24 { public static void main(String args[])
25   { Scanner get=new Scanner(System.in);
26     int ch;
27     triangle t= new triangle();
28     rectangle r= new rectangle();
29     circle c =new circle();
30     System.out.println("1. Rectangle\n2. Triangle\n3. Circle");
31     System.out.println("\nEnter the no of choice: ");
32     ch=get.nextInt();
33     switch(ch)
```

```
Java source file      length: 1,349  lines: 54  Ln: 51  Col: 51  Sel: 0 | 0  Windows (CR LF)  UTF-8  INS
14:19 03-11-2020

D:\Java\jdk1.8.0_261\bin\prog\ShapeMain.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

23  class ShapeMain
24  { public static void main(String args[])
25  { Scanner get=new Scanner(System.in);
26    int ch;
27    triangle t= new triangle();
28    rectangle r= new rectangle();
29    circle c =new circle();
30    System.out.println("1. Rectangle\n2. Triangle\n3. Circle");
31    System.out.println("\nEnter the no of choice: ");
32    ch=get.nextInt();
33    switch(ch)
34    { case 1 :
35      System.out.println("\nEnter height and width:");
36      r.d1= get.nextInt();
37      r.d2= get.nextInt();
38      r.printarea();
39      break;
40
41      case 2 :
42      System.out.println("\nEnter altitude and base:");
43      t.d1= get.nextInt();
44      t.d2= get.nextInt();
45      t.printarea();
46      break;
47
48      case 3 :
49      System.out.println("Enter the radius :");
50      c.d1=get.nextInt();
51      c.printarea();
52      break;
53    default : System.out.println("Invalid Input");
54  }
55 }
```

Command Prompt

Microsoft Windows [Version 10.0.18363.1139]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\stand>d:

D:\> cd

D:\

D:\>cd D:\Java\jdk1.8.0_261\bin\prog

D:\Java\jdk1.8.0_261\bin\prog>set path="D:\Java\jdk1.8.0_261\bin"

D:\Java\jdk1.8.0_261\bin\prog>javac ShapeMain.java

D:\Java\jdk1.8.0_261\bin\prog>java ShapeMain

1. Rectangle
2. Triangle
3. Circle

Enter the no of choice:

3

Enter the radius :

4

Area: 50.264

D:\Java\jdk1.8.0_261\bin\prog>



14:21
03-11-2020