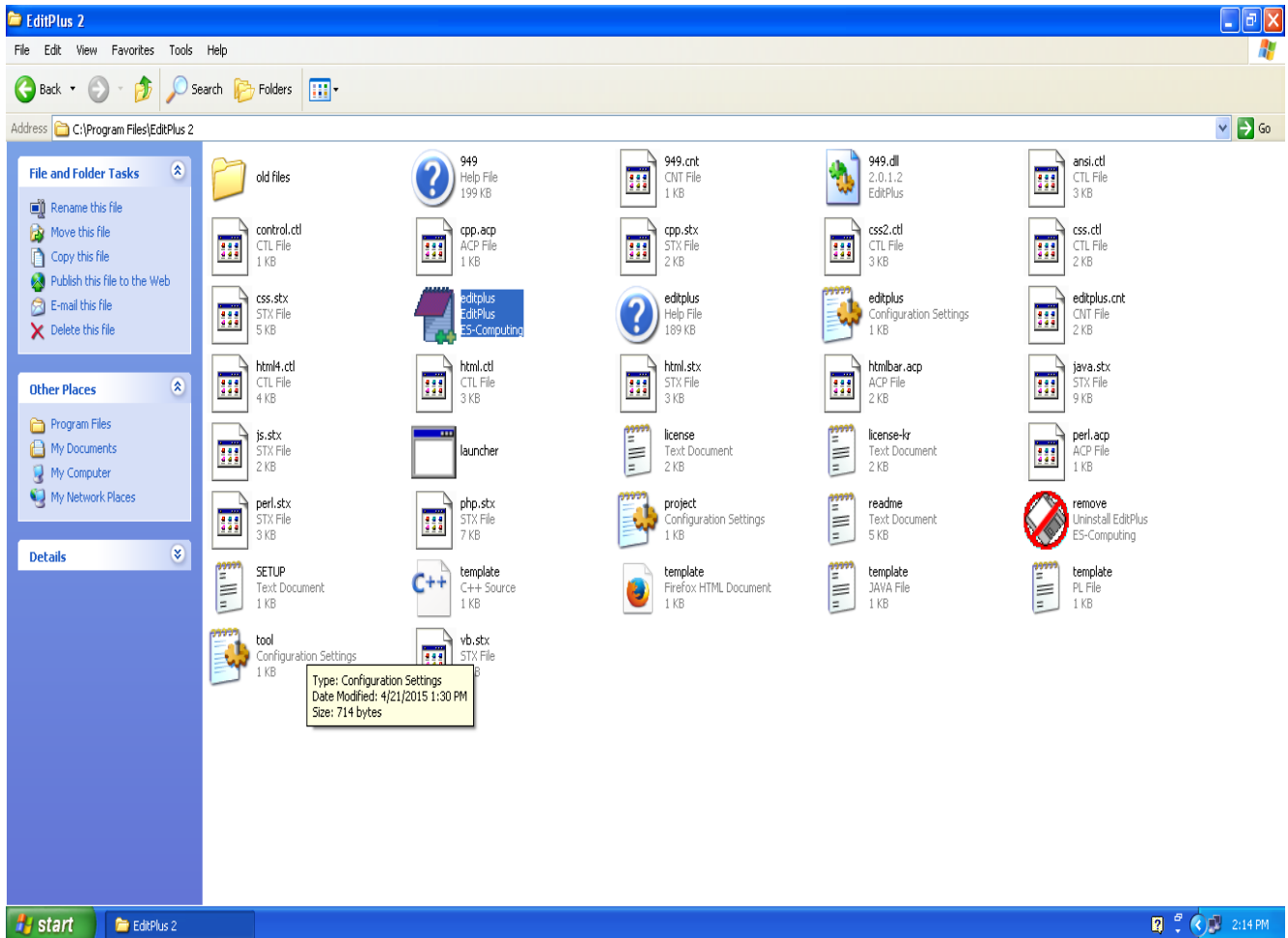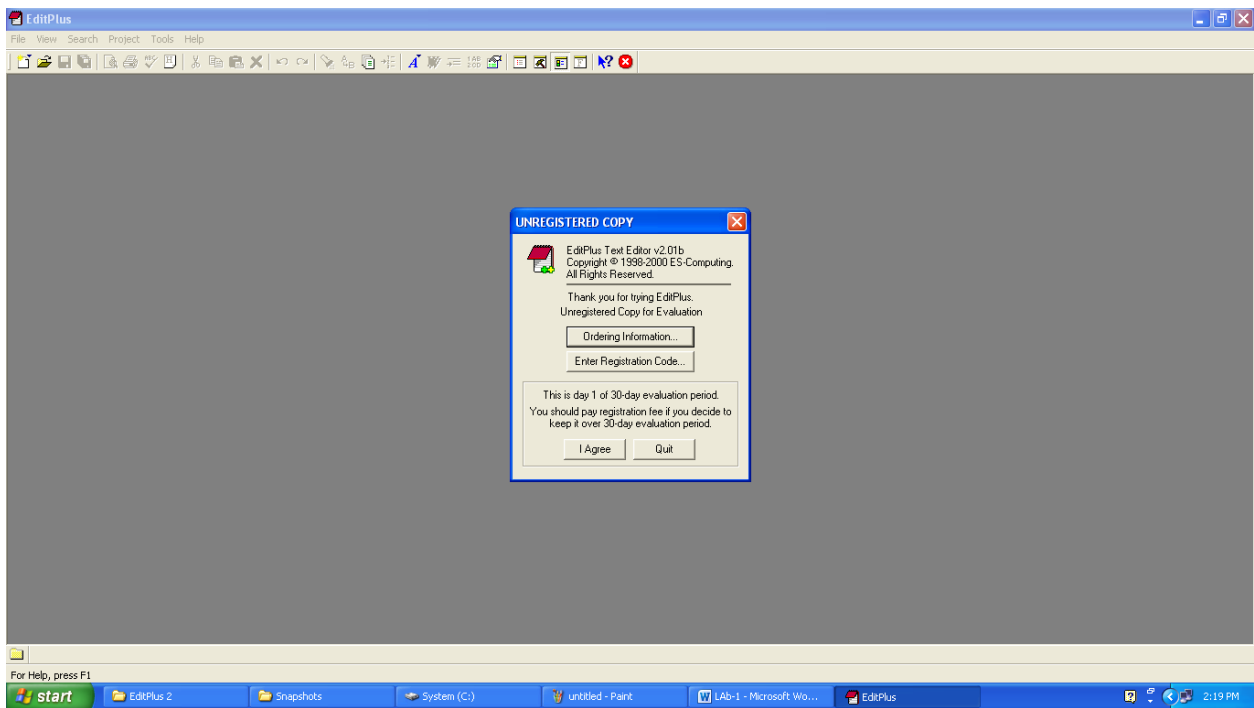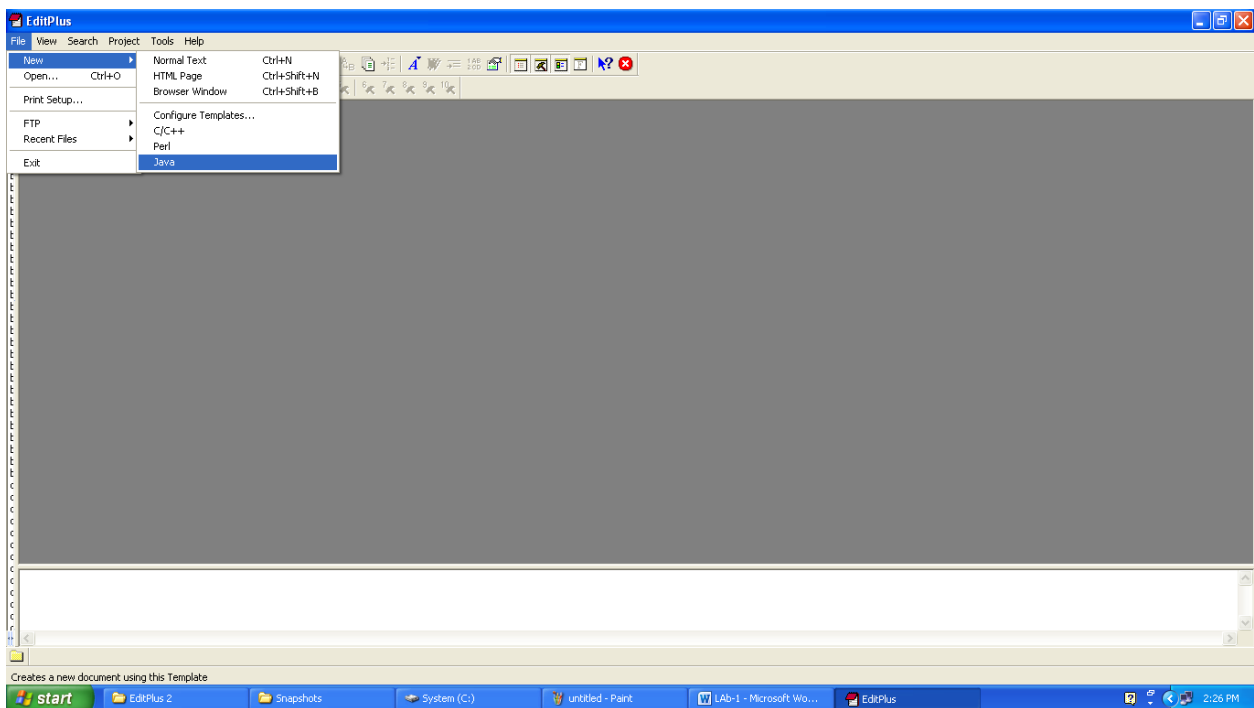# Lab-1 Assignments

Writing First Java Program

1. Click on start->My Computer-> System (C) -> Program Files -> Edit Plus 2..
2. Double click on editplus icon
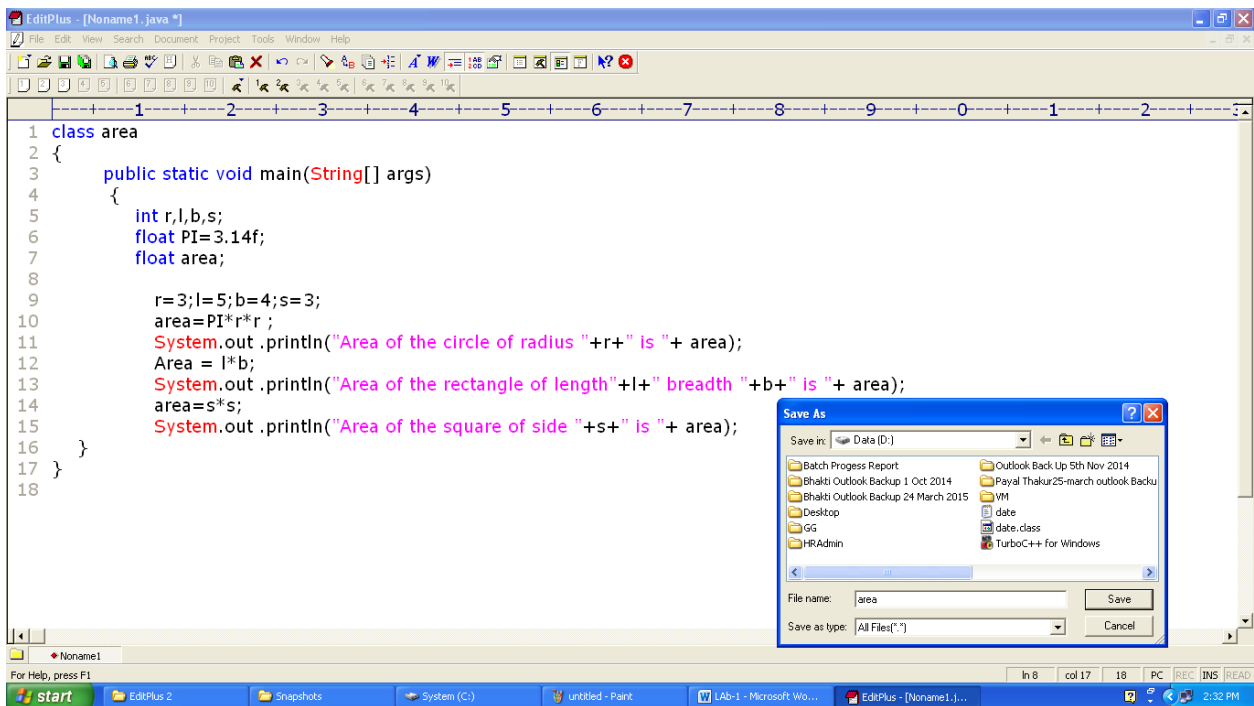
Click on I Agree

Click on
File -> New- > Java
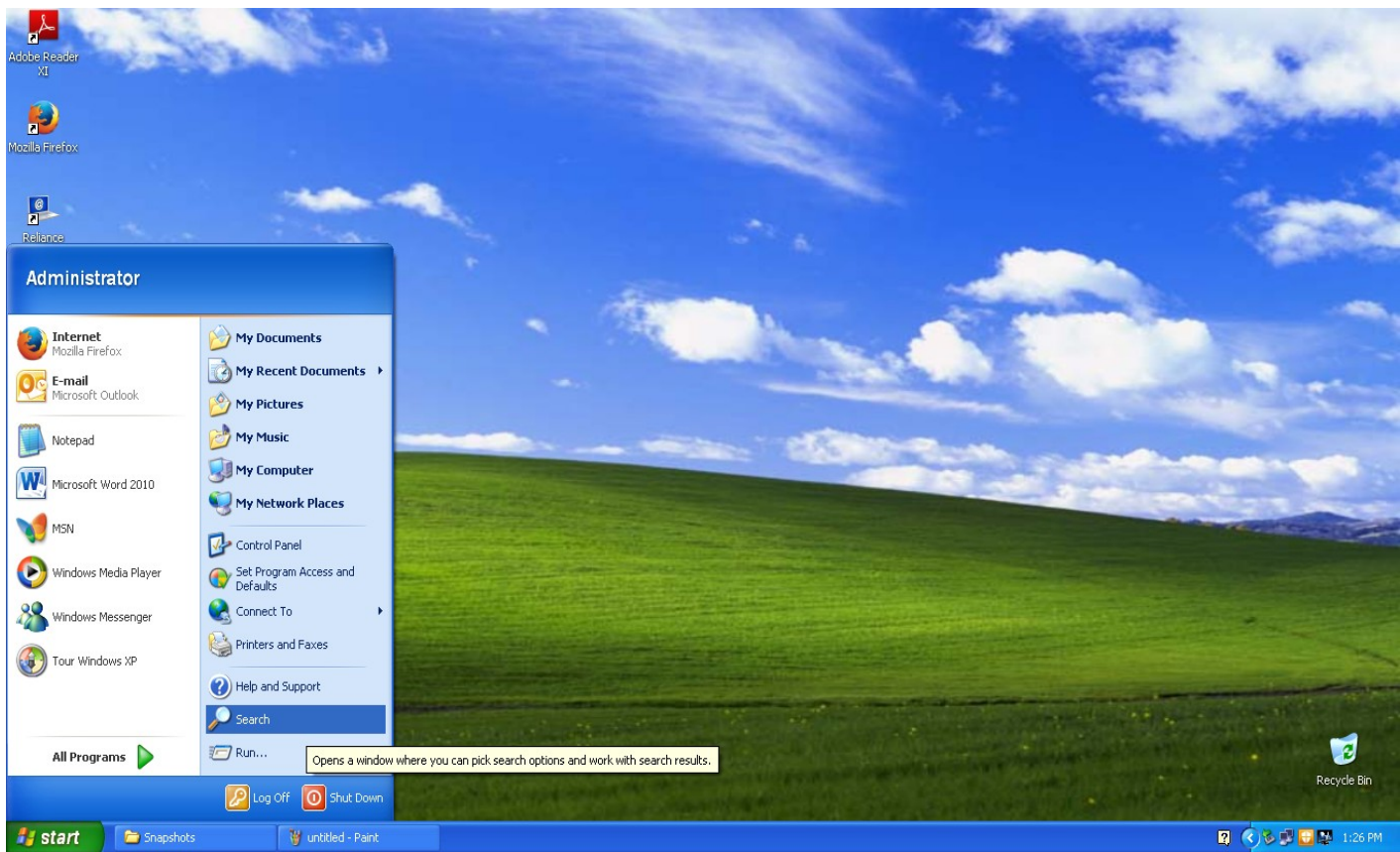Write your java program in the editor

```java
class area
{
    public static void main(String[] args)
    {
        int r,l,b,s;
        float PI=3.14f;
        float area;

        r=3;l=5;b=4;s=3;
        area=PI*r*r ;
        System.out .println("Area of the circle of radius "+r+" is "+ area);
        Area = l*b;
        System.out .println("Area of the rectangle of length"+l+" breadth "+b+" is "+ area);
        area=s*s;
        System.out .println("Area of the square of side "+s+" is "+ area);
    }
}
```

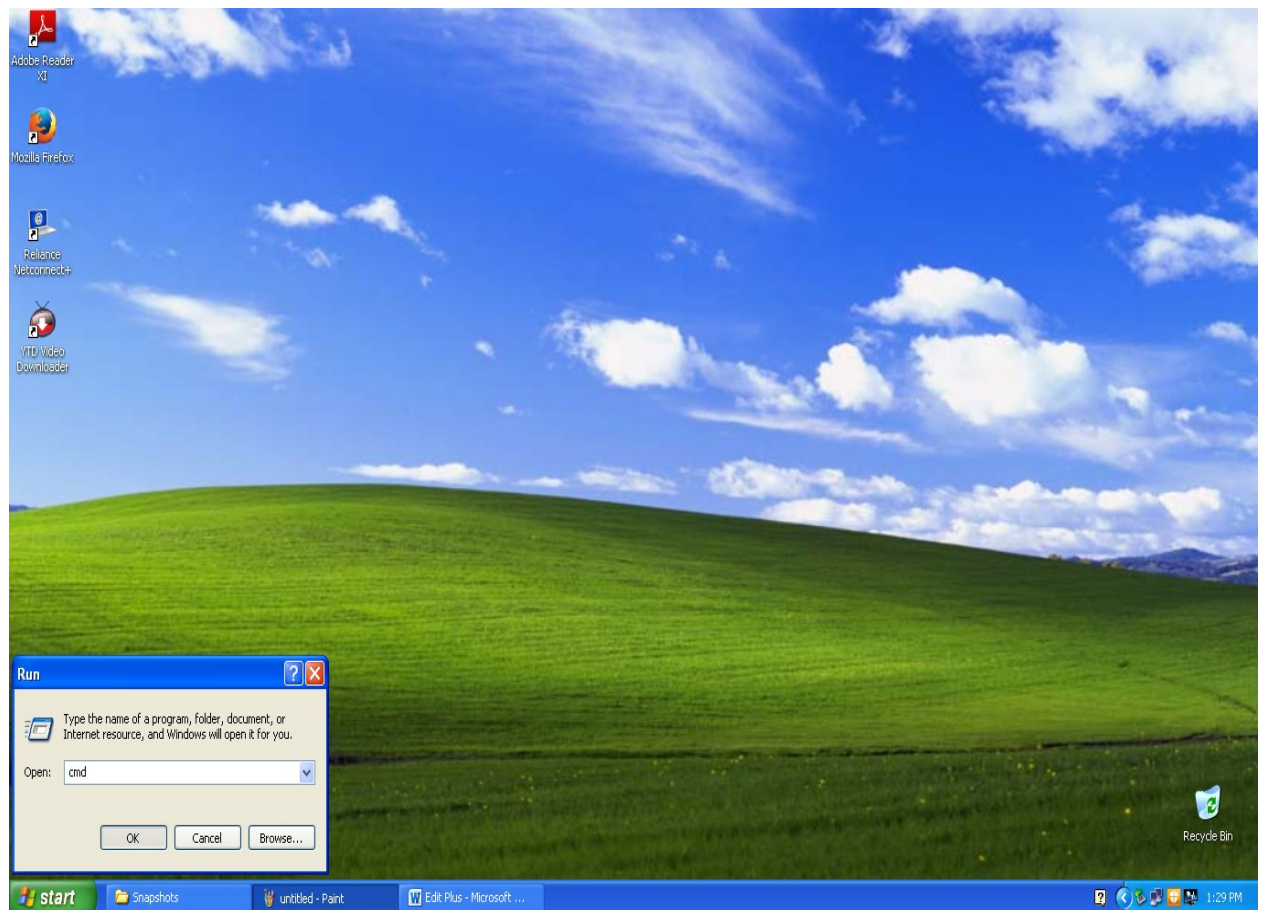Save the file as area.java (saved in D drive)

Compile and Run Java Program on Command Prompt
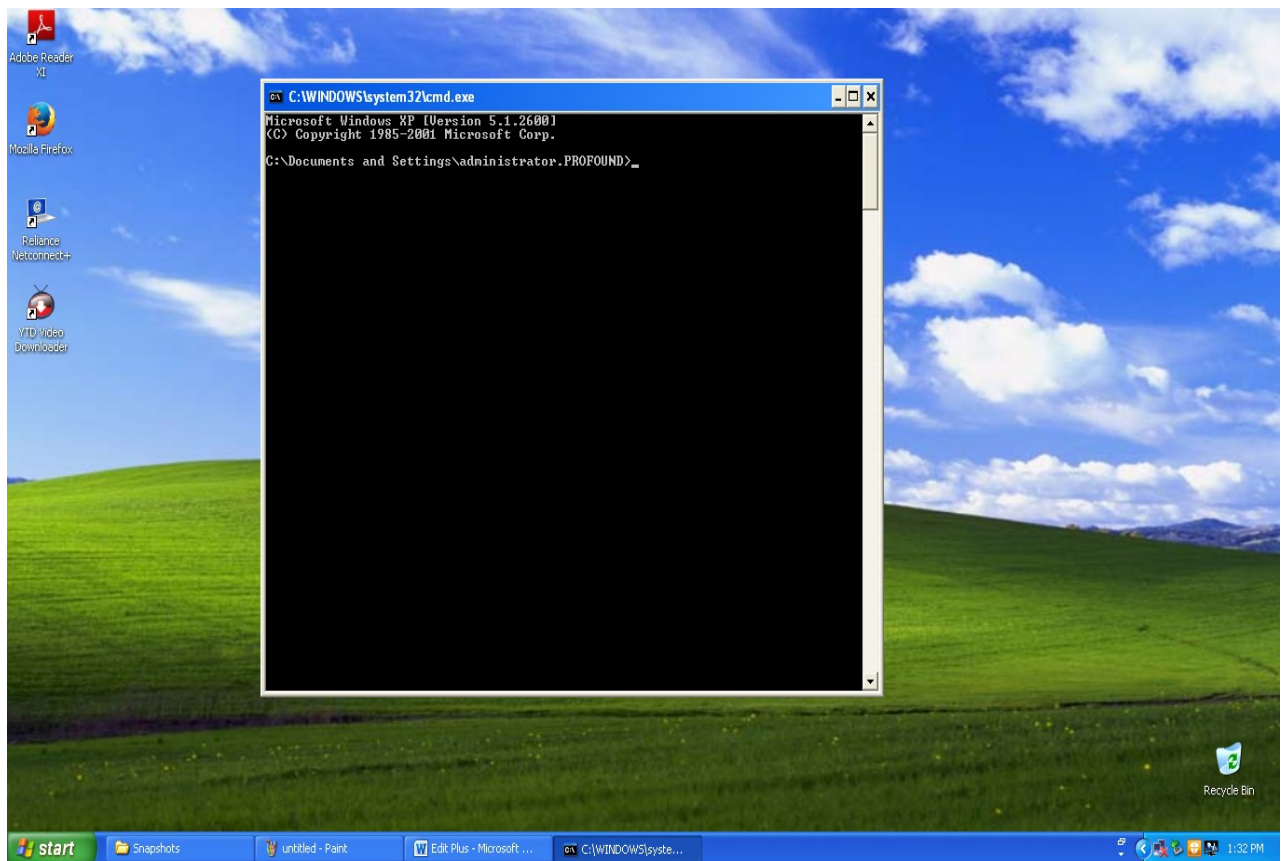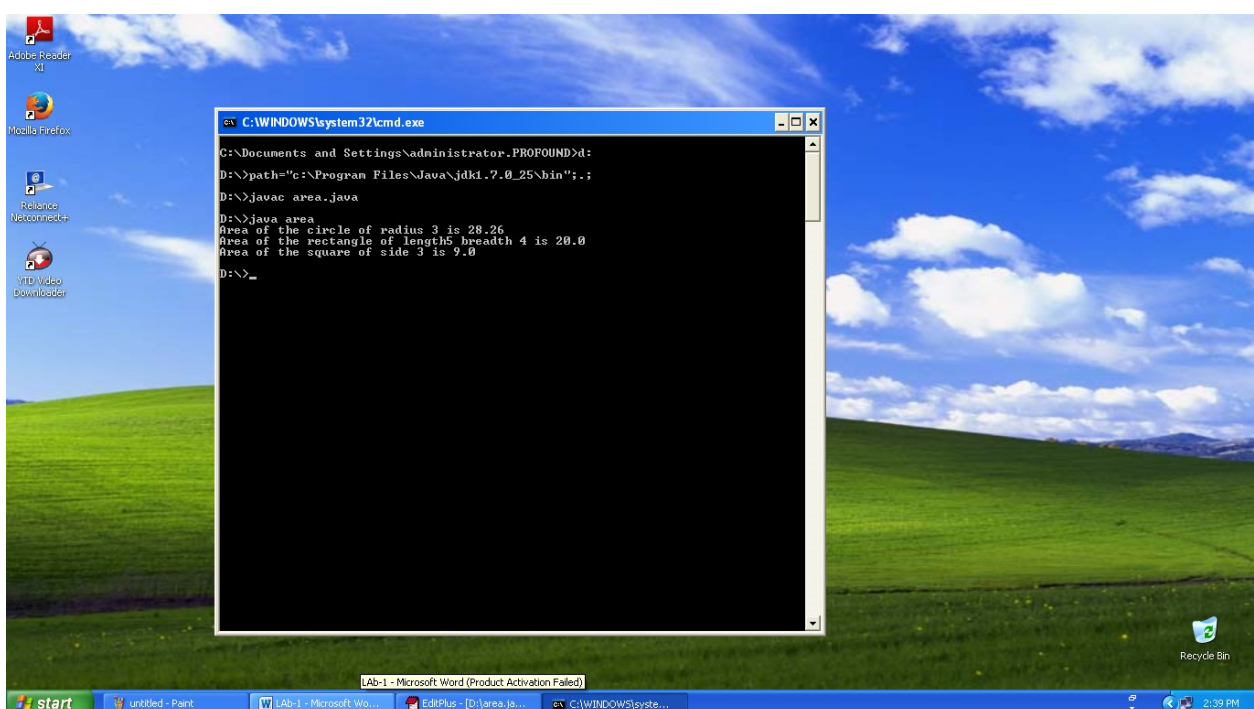**Steps:**
1. Click on Start

2. Click on run

3. Type cmd and click on OK Button

4. From the command prompt move to the drive and folder where you have saved your program
   like
   c:\Documents and Settings\administrator.PROFOUND> d:(press Enter Key)
   d:\>

5: set the path

        D:\> path="c:\Program Files\Java\jdk1.7\bin";.; //(Press enter key)

6. Compile the source code

   D:\>javac area.java

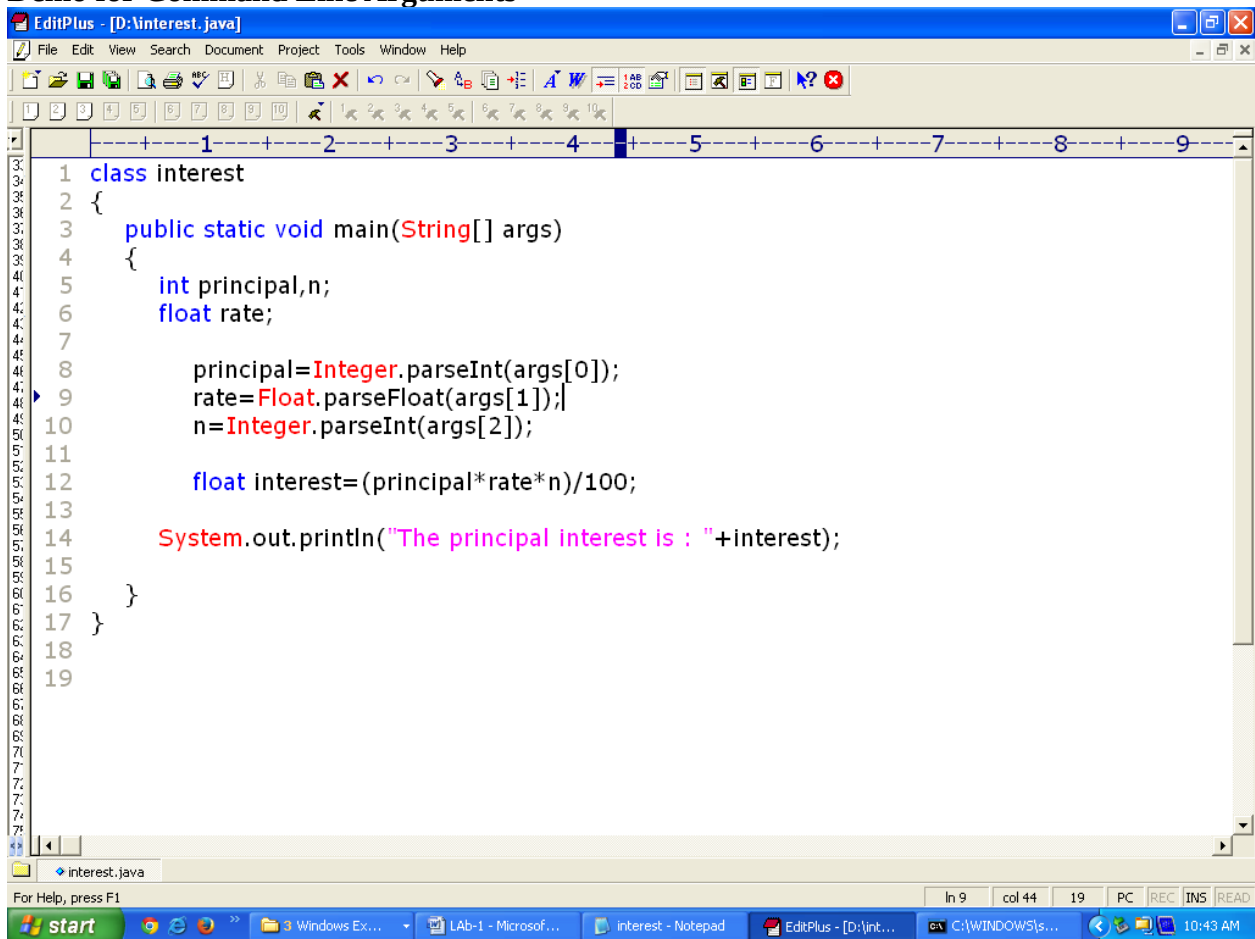   Once compiled generates area.class file

7. Run the .class file

   D:\>java area

   Area of the circle of radius 3 is 28.26

   Area of the rectangle of length5 breadth 4 is 20.0

   Area of the square of side 3 is 9.0

Demo for Command Line Arguments


```java
class interest
{
    public static void main(String[] args)
    {
        int principal,n;
        float rate;

            principal=Integer.parseInt(args[0]);
            rate=Float.parseFloat(args[1]);
            n=Integer.parseInt(args[2]);

            float interest=(principal*rate*n)/100;

        System.out.println("The principal interest is : "+interest);
    }
}
```

```
C:\WINDOWS\system32\cmd.exe                                    _ □ ×

D:\>javac interest.java

D:\>java interest 9000 8.5 6
The principal interest is : 4590.0

D:\>
```

Assignments To Solve

*CLA-----> command Line Argument

1. accept two integer values via CLA* and perform all arithmetic operation
2 Modify the above program ,try it with different data types.
3. Accept basic salary via CLA* and calculate the following

     DA=20% of basic
     HRA=30% of basic
     Calculate gross salary GROSS=BASIC+DA+HRA
     Calculate the Income tax (IT) based on the following condition

SAL RANGE	IT
Basic >0 and basic < 4000	4%
Basic >=4000 and basic < 10000	6%
Basic >=10000 and basic < 17000	8%
Basic >=17000 and basic < 27000	10%
Basic >=27000 onwards	15%

4.Accept five different values via CLA* by using for loop and display sum of that values
5.Accept three digit number via CLA* and calculate the sum of digit
6.Accept values via CLA* for 1-D array of integer type and display it on screen
7. modify the above program and calculate the sum of number in array