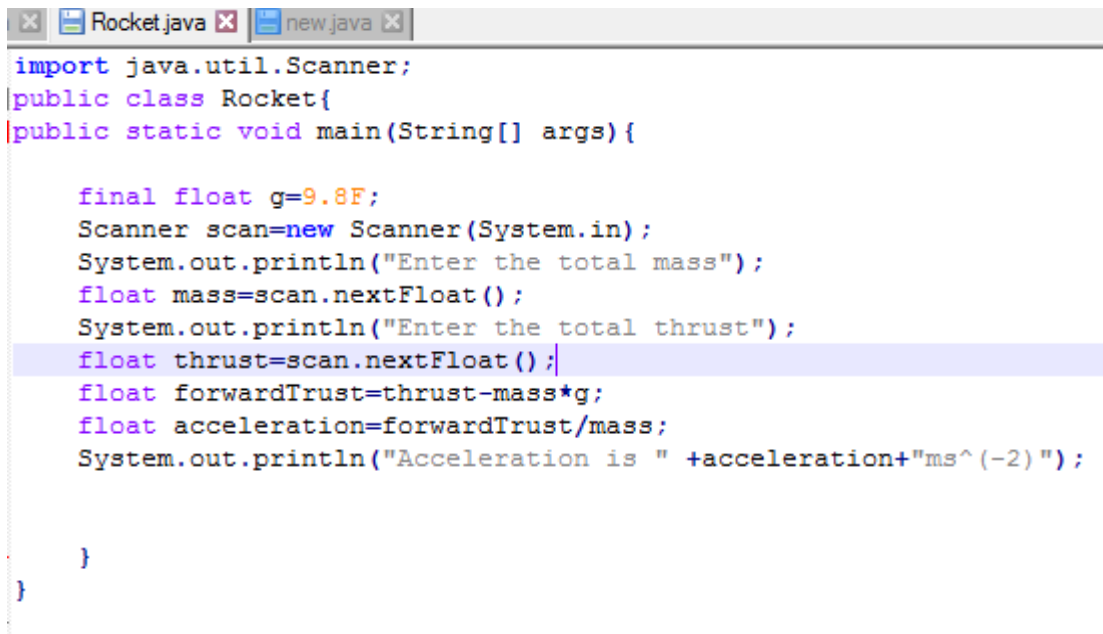# IS2104

Rapid Application Development
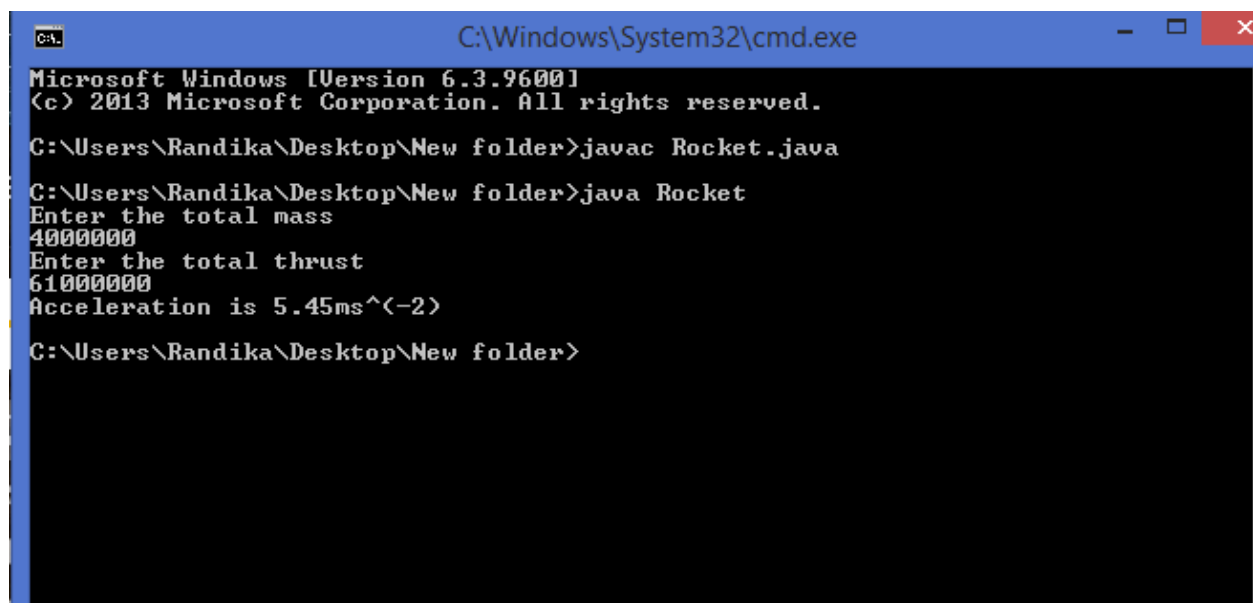
Activity 2

1.Rocket

```java
import java.util.Scanner;
public class Rocket{
public static void main(String[] args){

    final float g=9.8F;
    Scanner scan=new Scanner(System.in);
    System.out.println("Enter the total mass");
    float mass=scan.nextFloat();
    System.out.println("Enter the total thrust");
    float thrust=scan.nextFloat();
    float forwardTrust=thrust-mass*g;
    float acceleration=forwardTrust/mass;
    System.out.println("Acceleration is " +acceleration+"ms^(-2)");


    }
}
```

```
C:\Windows\System32\cmd.exe

Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\Randika\Desktop\New folder>javac Rocket.java

C:\Users\Randika\Desktop\New folder>java Rocket
Enter the total mass
4000000
Enter the total thrust
61000000
Acceleration is 5.45ms^(-2)

C:\Users\Randika\Desktop\New folder>
```
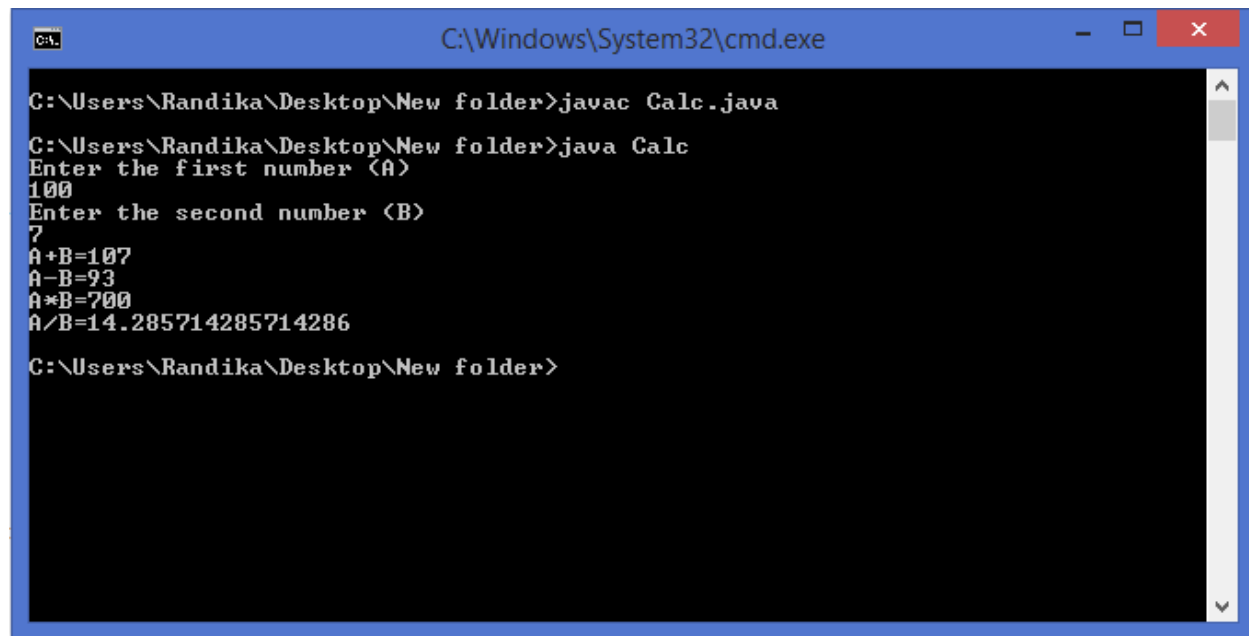
2.Calc

```java
import java.util.Scanner;
public class Calc{
    public static void main(String[] args){
        Scanner scan=new Scanner(System.in);
        double A;
        double B;

        while(true){
    System.out.println("Enter the first number (A)");
A=scan.nextInt();
if(A>0)
break;
else
    System.out.println("A should be greater than 0");


    }

        while(true){
            System.out.println("Enter the second number (B)");
            B=scan.nextInt();
            if(B>0)
                break;
                else
            System.out.println("B should be greater than 0");
        }
System.out.println("A+B="+(int)(A+B));
System.out.println("A-B="+(int)(A-B));
System.out.println("A*B="+(int)(A*B));
System.out.println("A/B="+(A/B));



    }

    }
```

```
C:\Windows\System32\cmd.exe                                    _  □  ×

C:\Users\Randika\Desktop\New folder>javac Calc.java

C:\Users\Randika\Desktop\New folder>java Calc
Enter the first number (A)
100
Enter the second number (B)
7
A+B=107
A-B=93
A*B=700
A/B=14.285714285714286

C:\Users\Randika\Desktop\New folder>
```