

IS2104 Rapid Application Development

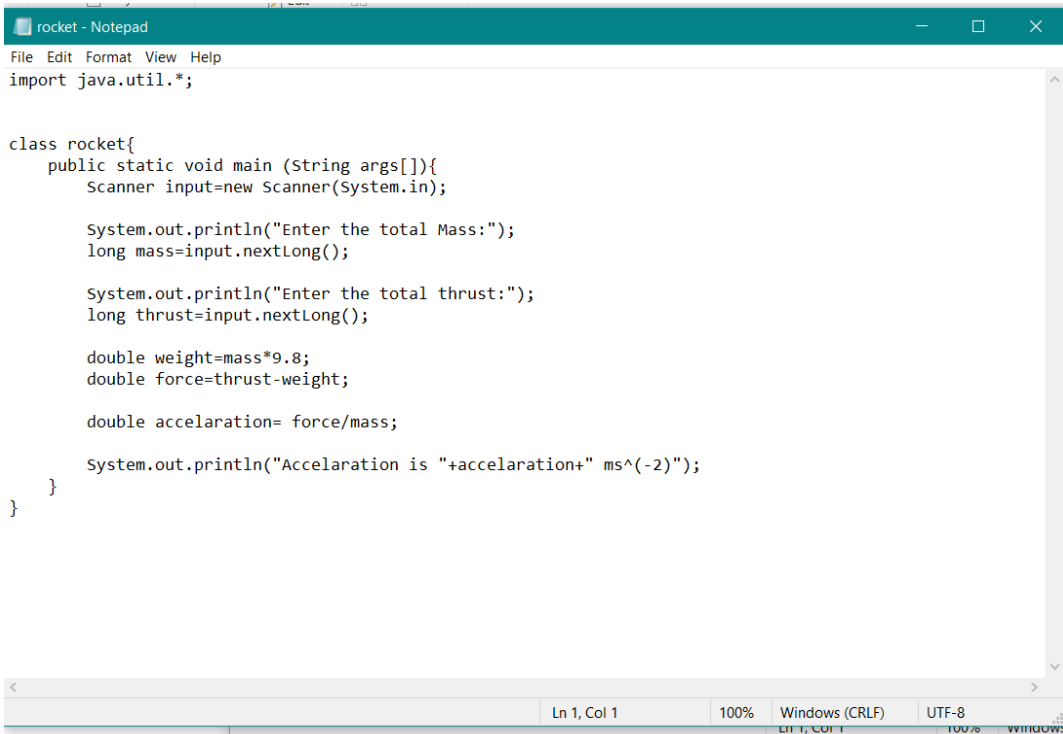
Practical 4

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Registration No - 2020/IS/055

Q1:



```
rocket - Notepad
File Edit Format View Help
import java.util.*;

class rocket{
    public static void main (String args[]){
        Scanner input=new Scanner(System.in);

        System.out.println("Enter the total Mass:");
        long mass=input.nextLong();

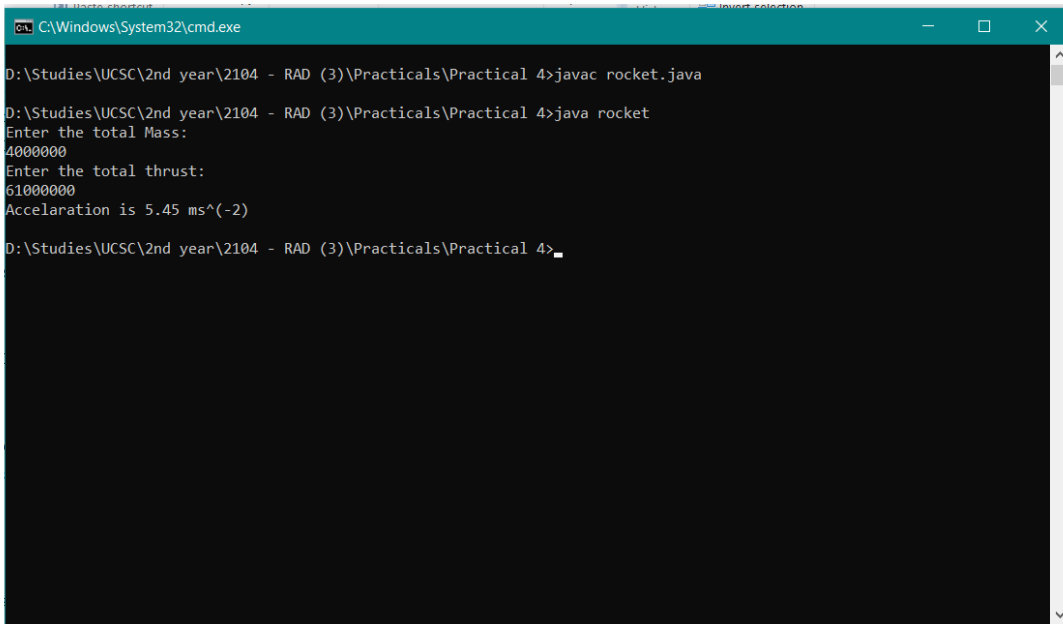
        System.out.println("Enter the total thrust:");
        long thrust=input.nextLong();

        double weight=mass*9.8;
        double force=thrust-weight;

        double acceleration= force/mass;

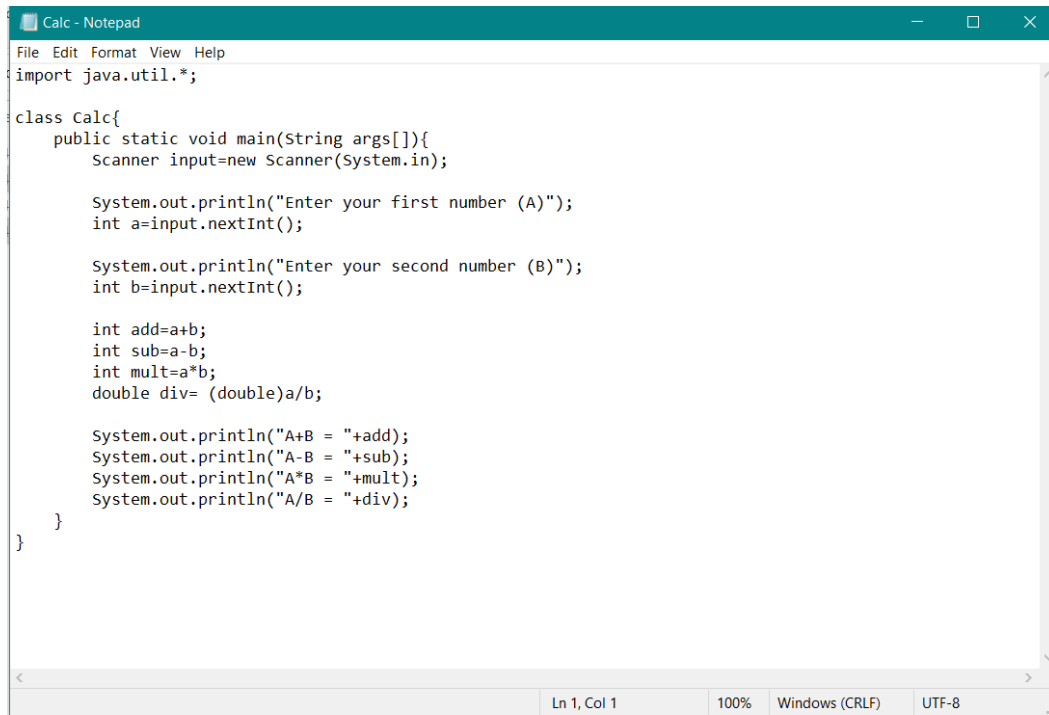
        System.out.println("Acceleration is "+acceleration+" ms^(-2)");
    }
}
```

Ln 1, Col 1 100% Windows (CRLF) UTF-8



```
C:\Windows\System32\cmd.exe
D:\Studies\UCSC\2nd year\2104 - RAD (3)\Practicals\Practical 4>javac rocket.java
D:\Studies\UCSC\2nd year\2104 - RAD (3)\Practicals\Practical 4>java rocket
Enter the total Mass:
4000000
Enter the total thrust:
6100000
Acceleration is 5.45 ms^(-2)
D:\Studies\UCSC\2nd year\2104 - RAD (3)\Practicals\Practical 4>
```

Q2:



```
File Edit Format View Help
import java.util.*;

class Calc{
    public static void main(String args[]){
        Scanner input=new Scanner(System.in);

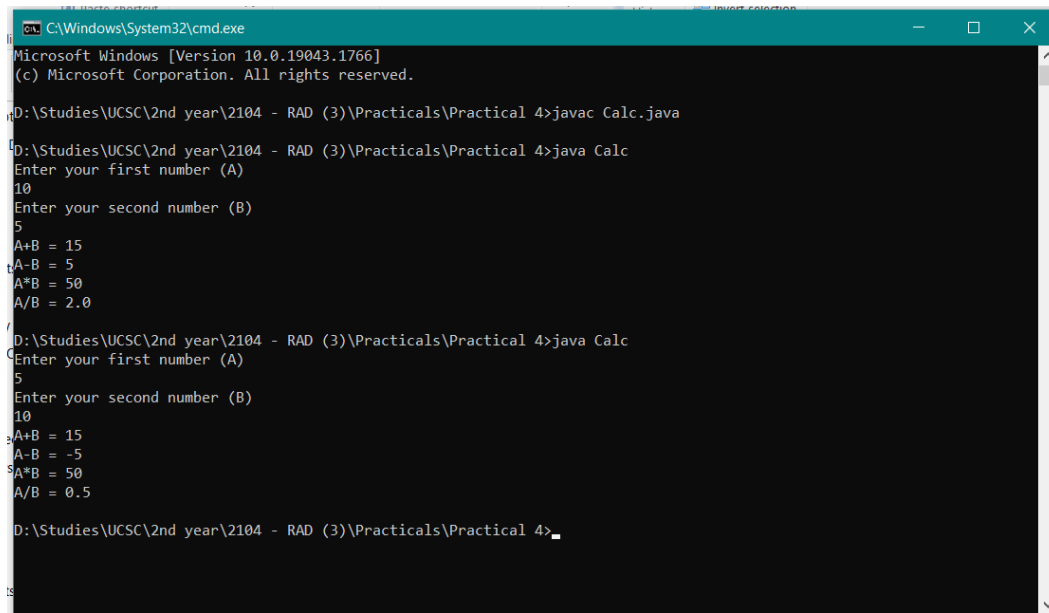
        System.out.println("Enter your first number (A)");
        int a=input.nextInt();

        System.out.println("Enter your second number (B)");
        int b=input.nextInt();

        int add=a+b;
        int sub=a-b;
        int mult=a*b;
        double div= (double)a/b;

        System.out.println("A+B = "+add);
        System.out.println("A-B = "+sub);
        System.out.println("A*B = "+mult);
        System.out.println("A/B = "+div);
    }
}
```

Ln 1, Col 1 100% Windows (CRLF) UTF-8



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19043.1766]
(c) Microsoft Corporation. All rights reserved.

D:\Studies\UCSC\2nd year\2104 - RAD (3)\Practicals\Practical 4>javac Calc.java

D:\Studies\UCSC\2nd year\2104 - RAD (3)\Practicals\Practical 4>java Calc
Enter your first number (A)
10
Enter your second number (B)
5
A+B = 15
A-B = 5
A*B = 50
A/B = 2.0

D:\Studies\UCSC\2nd year\2104 - RAD (3)\Practicals\Practical 4>java Calc
Enter your first number (A)
5
Enter your second number (B)
10
A+B = 15
A-B = -5
A*B = 50
A/B = 0.5

D:\Studies\UCSC\2nd year\2104 - RAD (3)\Practicals\Practical 4>
```