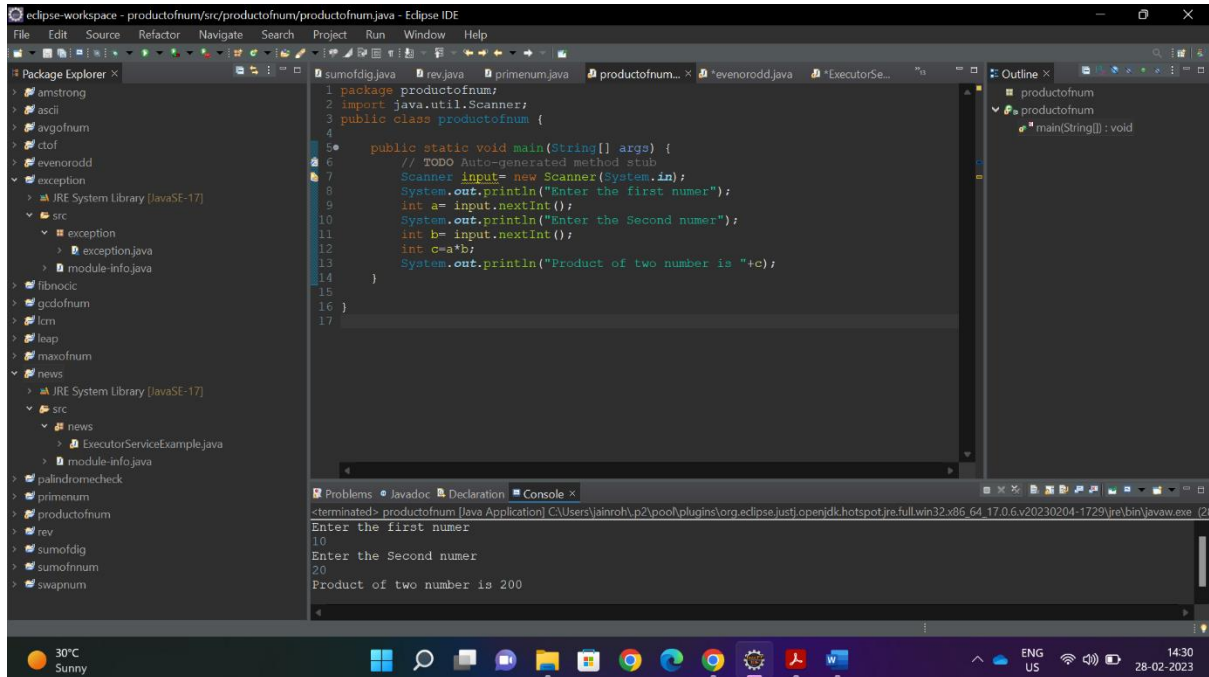


## Assignment 2

Name: Rohan Jain T B

1) Write a Java program to print the product of two numbers.

<https://codeshare.io/pqkmE9>



The screenshot shows the Eclipse IDE with a Java project named 'productofnum'. The main class is 'productofnum.java'. The code is as follows:

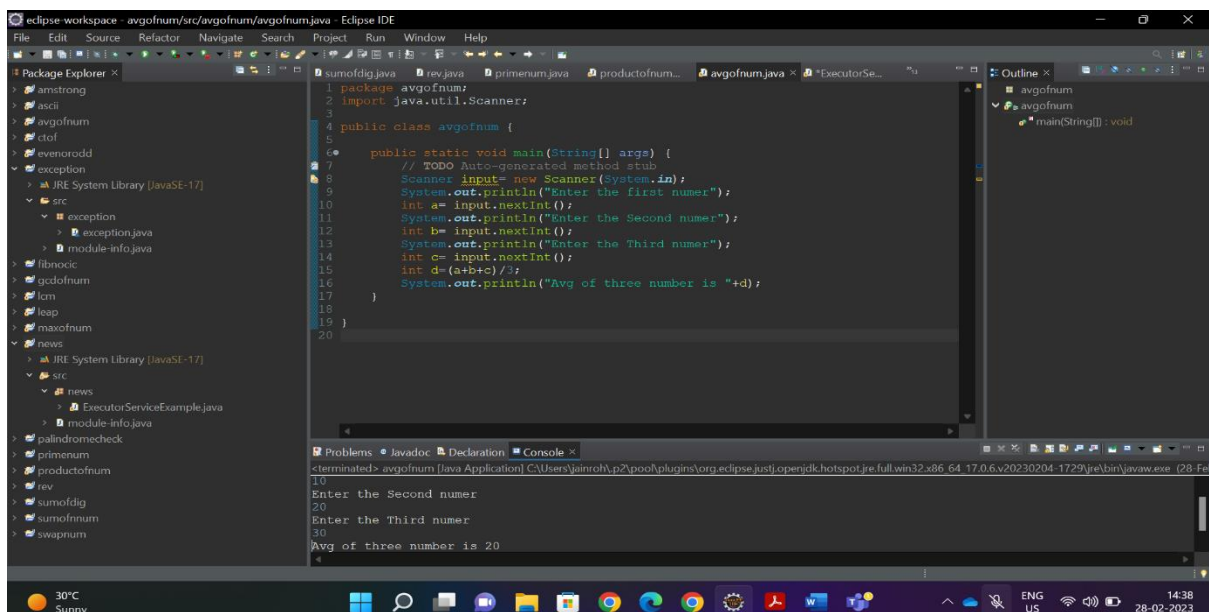
```
1 package productofnum;
2 import java.util.Scanner;
3 public class productofnum {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         Scanner input= new Scanner(System.in);
8         System.out.println("Enter the first number");
9         int a= input.nextInt();
10        System.out.println("Enter the Second number");
11        int b= input.nextInt();
12        int c=a*b;
13        System.out.println("Product of two number is "+c);
14    }
15 }
16
17
```

The console output shows the program execution:

```
<terminated> productofnum [Java Application] C:\Users\jainroh\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-1729\jre\bin\java.exe (2
Enter the first number
10
Enter the Second number
20
Product of two number is 200
```

2) Write a Java program to calculate the average of three numbers.

<https://codeshare.io/km8PoY>



The screenshot shows the Eclipse IDE with a Java project named 'avgofnum'. The main class is 'avgofnum.java'. The code is as follows:

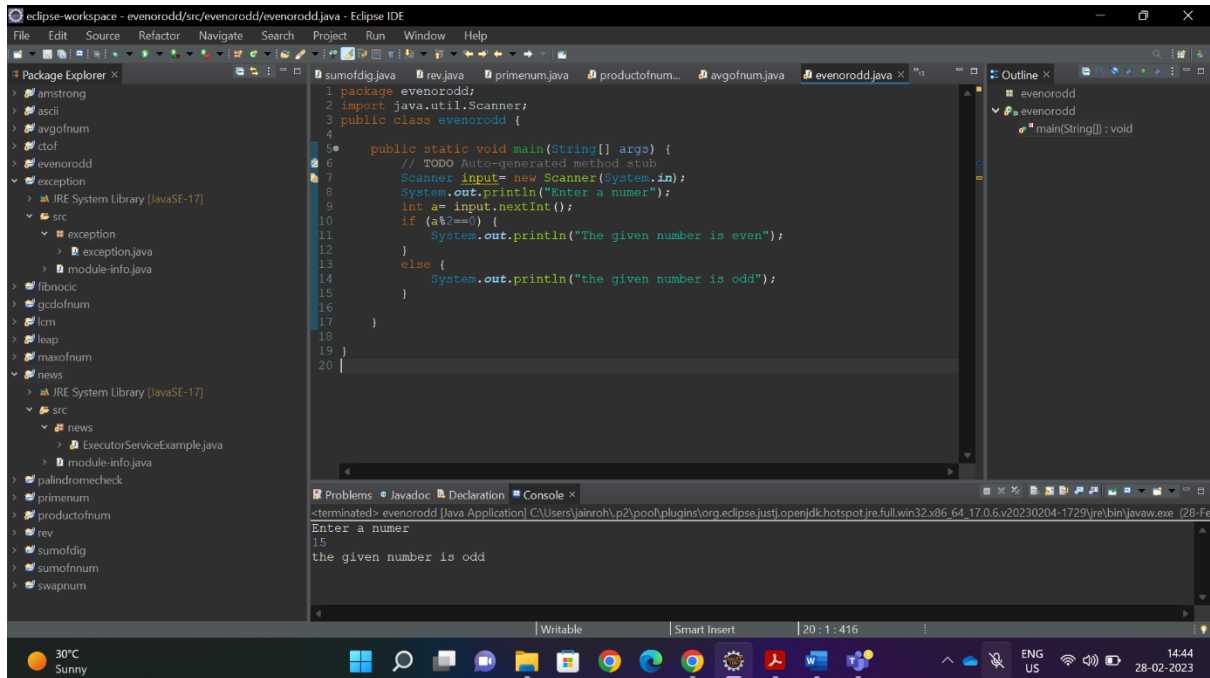
```
1 package avgofnum;
2 import java.util.Scanner;
3
4 public class avgofnum {
5
6     public static void main(String[] args) {
7         // TODO Auto-generated method stub
8         Scanner input= new Scanner(System.in);
9         System.out.println("Enter the first number");
10        int a= input.nextInt();
11        System.out.println("Enter the Second number");
12        int b= input.nextInt();
13        System.out.println("Enter the Third number");
14        int c= input.nextInt();
15        int d=(a+b+c)/3;
16        System.out.println("Avg of three number is "+d);
17    }
18 }
19
20
```

The console output shows the program execution:

```
<terminated> avgofnum [Java Application] C:\Users\jainroh\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-1729\jre\bin\java.exe (28-F
Enter the first number
10
Enter the Second number
20
Enter the Third number
30
Avg of three number is 20
```

3) Write a Java program to check whether a given number is even or odd.

<https://codeshare.io/mpbmgk>



The screenshot shows the Eclipse IDE with a project named 'evenorodd'. The 'Package Explorer' on the left shows the project structure. The 'Main' editor displays the following Java code:

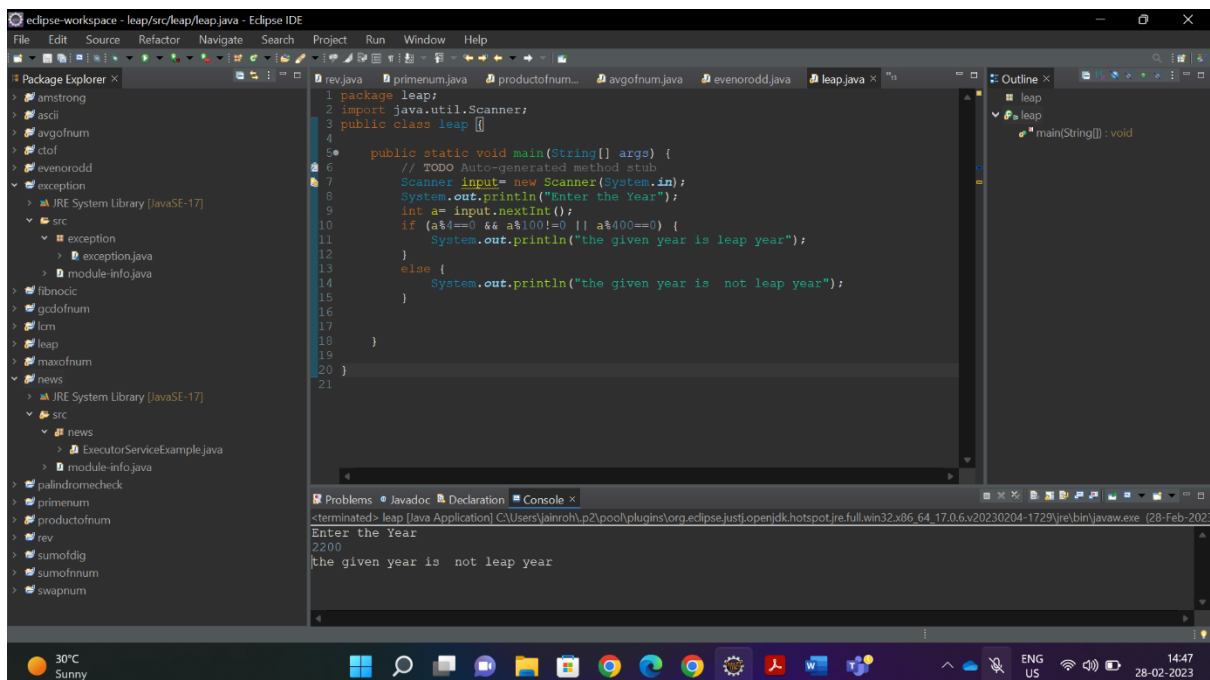
```
1 package evenorodd;
2 import java.util.Scanner;
3 public class evenorodd {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         Scanner input= new Scanner(System.in);
8         System.out.println("Enter a number");
9         int a= input.nextInt();
10        if (a%2==0) {
11            System.out.println("The given number is even");
12        }
13        else {
14            System.out.println("the given number is odd");
15        }
16    }
17 }
18 }
19 }
20 }
```

The 'Console' at the bottom shows the output of the program:

```
<terminated> evenorodd [Java Application] C:\Users\ainroh\p2\poo\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.6.v20230204-1729\jre\bin\javaw.exe (28-Feb-2023)
Enter a number
15
the given number is odd
```

4) Write a Java program to check whether a given year is a leap year.

<https://codeshare.io/zyA4wD>



The screenshot shows the Eclipse IDE with a project named 'leap'. The 'Package Explorer' on the left shows the project structure. The 'Main' editor displays the following Java code:

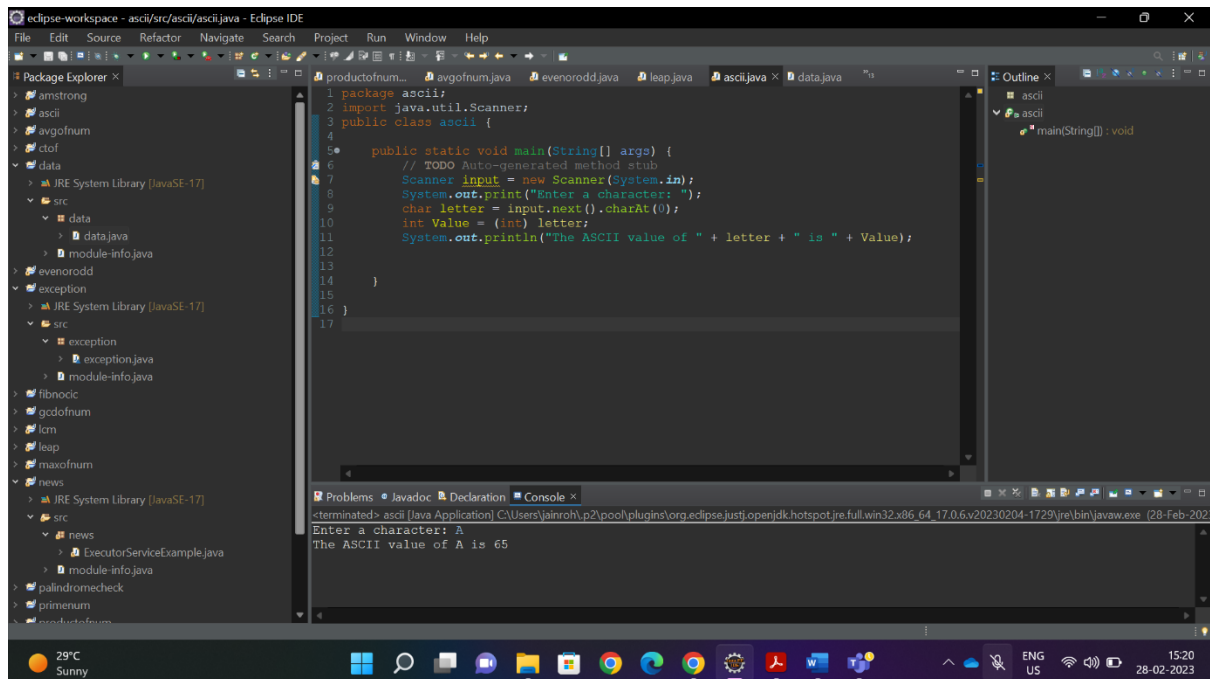
```
1 package leap;
2 import java.util.Scanner;
3 public class leap {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         Scanner input= new Scanner(System.in);
8         System.out.println("Enter the Year");
9         int a= input.nextInt();
10        if (a%4==0 && a%100!=0 || a%400==0) {
11            System.out.println("the given year is leap year");
12        }
13        else {
14            System.out.println("the given year is not leap year");
15        }
16    }
17 }
18 }
19 }
20 }
21 }
```

The 'Console' at the bottom shows the output of the program:

```
<terminated> leap [Java Application] C:\Users\ainroh\p2\poo\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.6.v20230204-1729\jre\bin\javaw.exe (28-Feb-2023)
Enter the Year
2200
the given year is not leap year
```

5) Write a Java program to print the ASCII value of a given character.

<https://codeshare.io/78m9mj>



The screenshot shows the Eclipse IDE with a project named 'ascii'. The Package Explorer on the left shows the project structure. The main editor displays the following Java code:

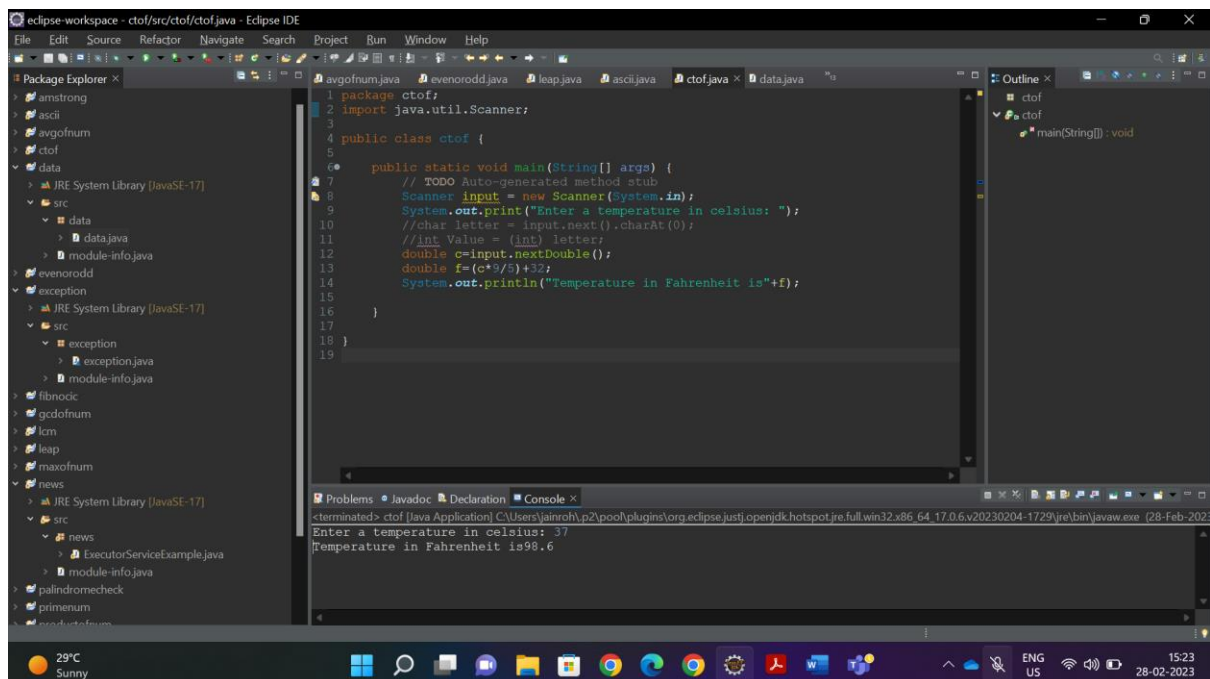
```
1 package ascii;
2 import java.util.Scanner;
3 public class ascii {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         Scanner input = new Scanner(System.in);
8         System.out.print("Enter a character: ");
9         char letter = input.next().charAt(0);
10        int Value = (int) letter;
11        System.out.println("The ASCII value of " + letter + " is " + Value);
12    }
13 }
14
15
16
17
```

The Console window at the bottom shows the output:

```
<terminated> ascii [Java Application] C:\Users\jainroh\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.6.v20230204-1729\jre\bin\javaw.exe (28-Feb-2023)
Enter a character: A
The ASCII value of A is 65
```

6) Write a Java program to convert Celsius to Fahrenheit.

<https://codeshare.io/9OLKWx>



The screenshot shows the Eclipse IDE with a project named 'ctof'. The Package Explorer on the left shows the project structure. The main editor displays the following Java code:

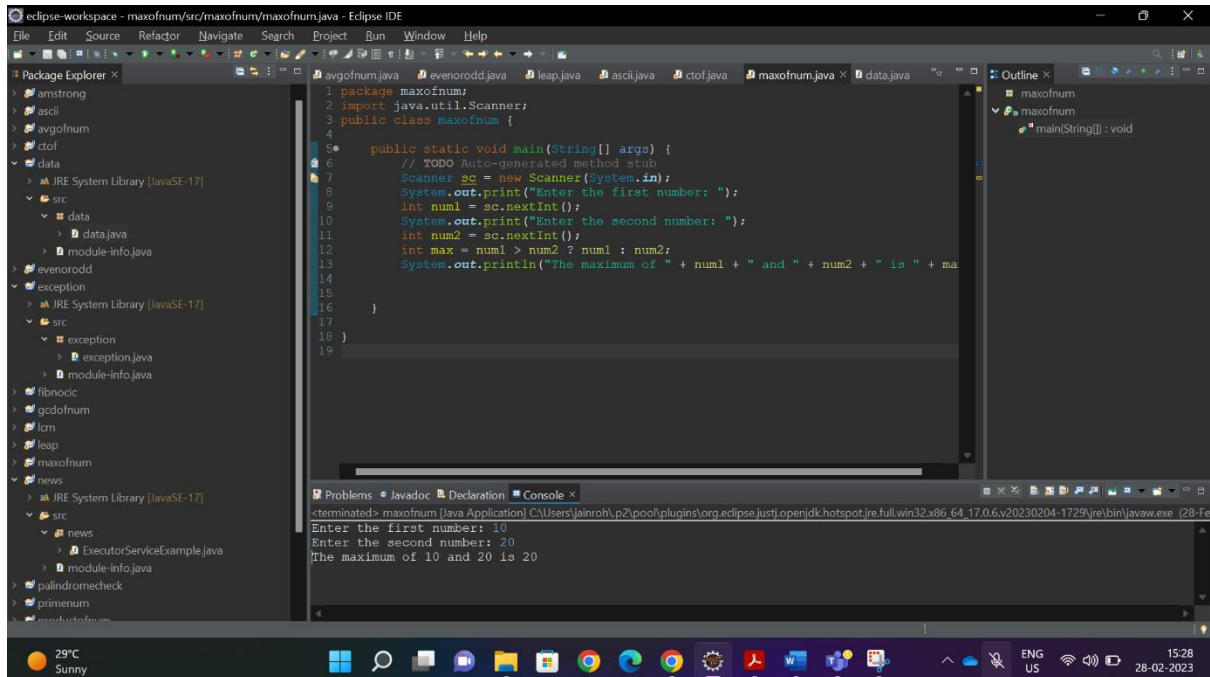
```
1 package ctof;
2 import java.util.Scanner;
3
4 public class ctof {
5
6     public static void main(String[] args) {
7         // TODO Auto-generated method stub
8         Scanner input = new Scanner(System.in);
9         System.out.print("Enter a temperature in celsius: ");
10        //char letter = input.next().charAt(0);
11        //int Value = (int) letter;
12        double c=input.nextDouble();
13        double f=(c*9/5)+32;
14        System.out.println("Temperature in Fahrenheit is"+f);
15    }
16 }
17
18
19
```

The Console window at the bottom shows the output:

```
<terminated> ctof [Java Application] C:\Users\jainroh\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.6.v20230204-1729\jre\bin\javaw.exe (28-Feb-2023)
Enter a temperature in celsius: 37
Temperature in Fahrenheit is98.6
```

7) Write a Java program to find the maximum of two numbers.

<https://codeshare.io/yo0mX0>



The screenshot shows the Eclipse IDE interface. The Package Explorer on the left lists several projects, including 'maxofnum'. The main editor displays the source code for 'maxofnum.java'. The code defines a package 'maxofnum', imports 'java.util.Scanner', and defines a public class 'maxofnum' with a 'main' method. The 'main' method prompts the user to enter two numbers, reads them using 'Scanner', and prints the maximum of the two. The Console at the bottom shows the program's execution with the input '10' and '20', resulting in the output 'The maximum of 10 and 20 is 20'.

```
1 package maxofnum;
2 import java.util.Scanner;
3 public class maxofnum {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         Scanner sc = new Scanner(System.in);
8         System.out.print("Enter the first number: ");
9         int num1 = sc.nextInt();
10        System.out.print("Enter the second number: ");
11        int num2 = sc.nextInt();
12        int max = num1 > num2 ? num1 : num2;
13        System.out.println("The maximum of " + num1 + " and " + num2 + " is " + max);
14    }
15 }
16
17
18
19
```

Console Output:

```
<terminated> maxofnum (Java Application) C:\Users\jainroh\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.6.v20230204-1729\jre\bin\javaw.exe (28-fe
Enter the first number: 10
Enter the second number: 20
The maximum of 10 and 20 is 20
```