

# تكليف مادة النظم القائمة علي المعرفة

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الشعبة : حاسب الي

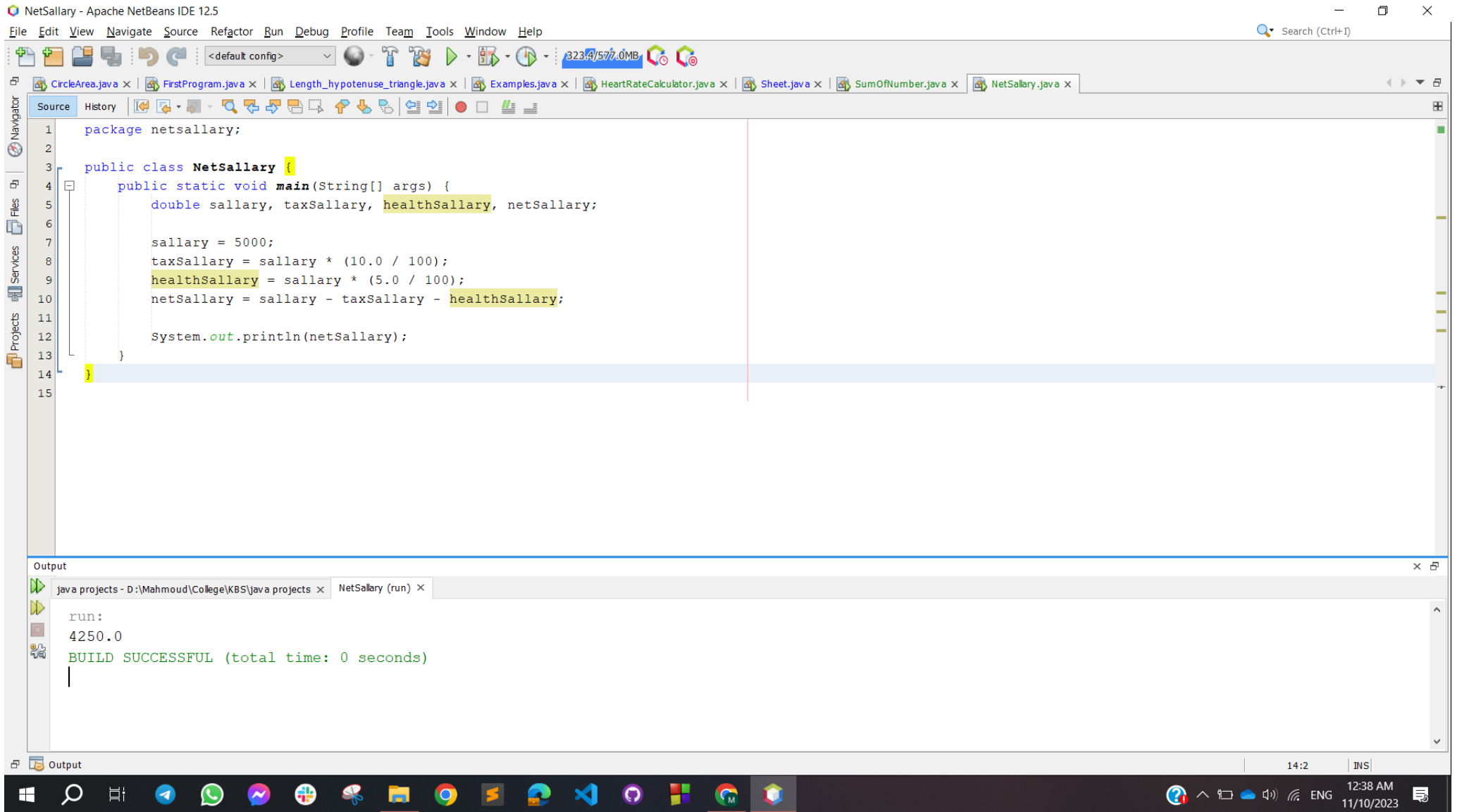
الفرقة : الرابعة

السكشن : 3

الرقم السري : QRKXX1P7

تطبيقي السكشن

# 1- برنامج لحساب صافي مرتب



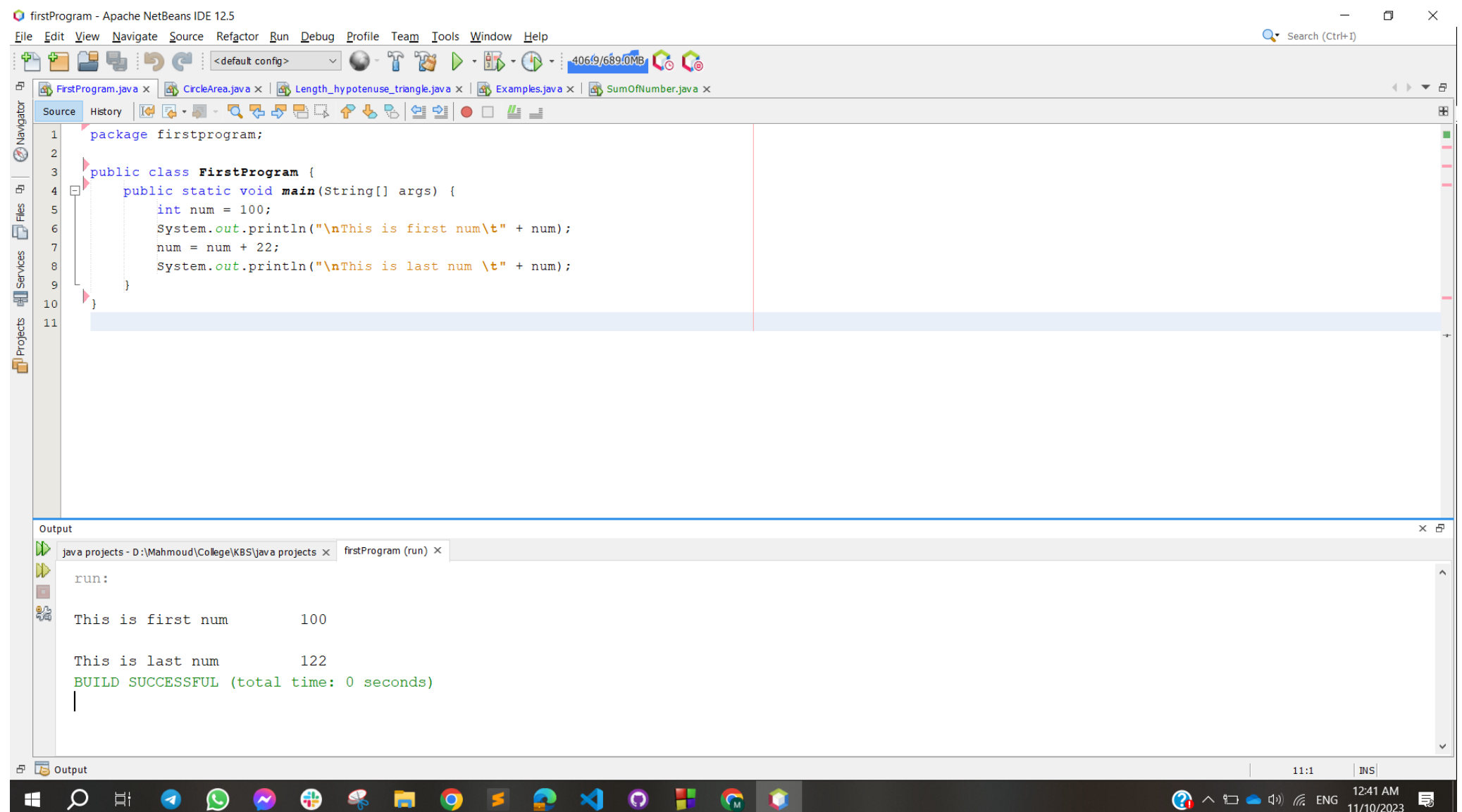
The screenshot shows the NetBeans IDE interface. The main editor window displays the source code for `NetSalary.java`. The code is as follows:

```
1 package netsalary;
2
3 public class NetSalary {
4     public static void main(String[] args) {
5         double sallary, taxSallary, healthSallary, netSallary;
6
7         sallary = 5000;
8         taxSallary = sallary * (10.0 / 100);
9         healthSallary = sallary * (5.0 / 100);
10        netSallary = sallary - taxSallary - healthSallary;
11
12        System.out.println(netSallary);
13    }
14 }
15
```

The output window shows the result of running the program:

```
run:
4250.0
BUILD SUCCESSFUL (total time: 0 seconds)
```

# 2- برنامج لاعلان عن متغير واسناد قيمة له



The screenshot shows the NetBeans IDE interface. The main editor window displays the source code for `FirstProgram.java`. The code is as follows:

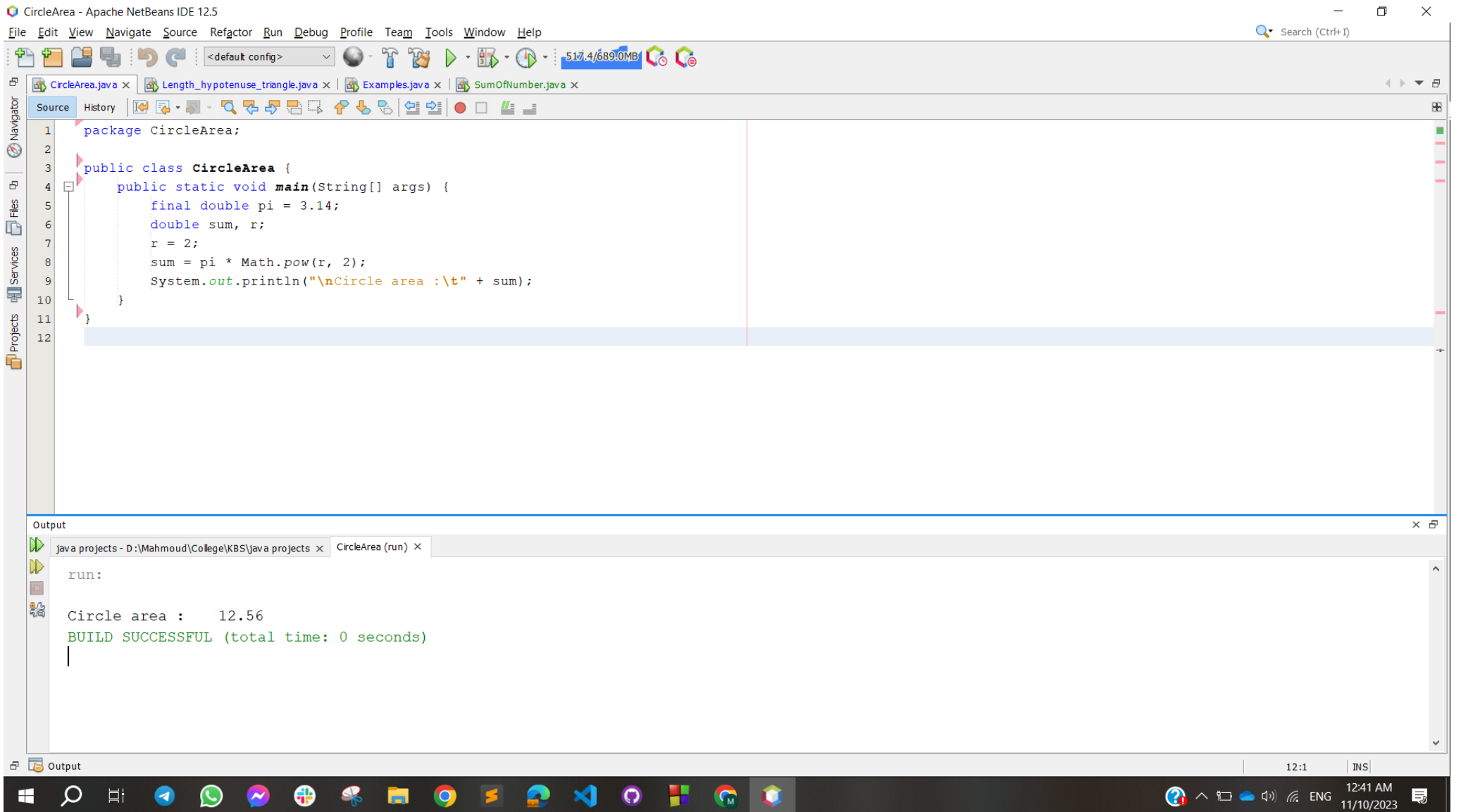
```
1 package firstprogram;
2
3 public class FirstProgram {
4     public static void main(String[] args) {
5         int num = 100;
6         System.out.println("\nThis is first num\t" + num);
7         num = num + 22;
8         System.out.println("\nThis is last num \t" + num);
9     }
10 }
11
```

The output window shows the result of running the program:

```
run:
This is first num      100

This is last num      122
BUILD SUCCESSFUL (total time: 0 seconds)
```

### 3- برنامج لحساب مساحة الدائرة



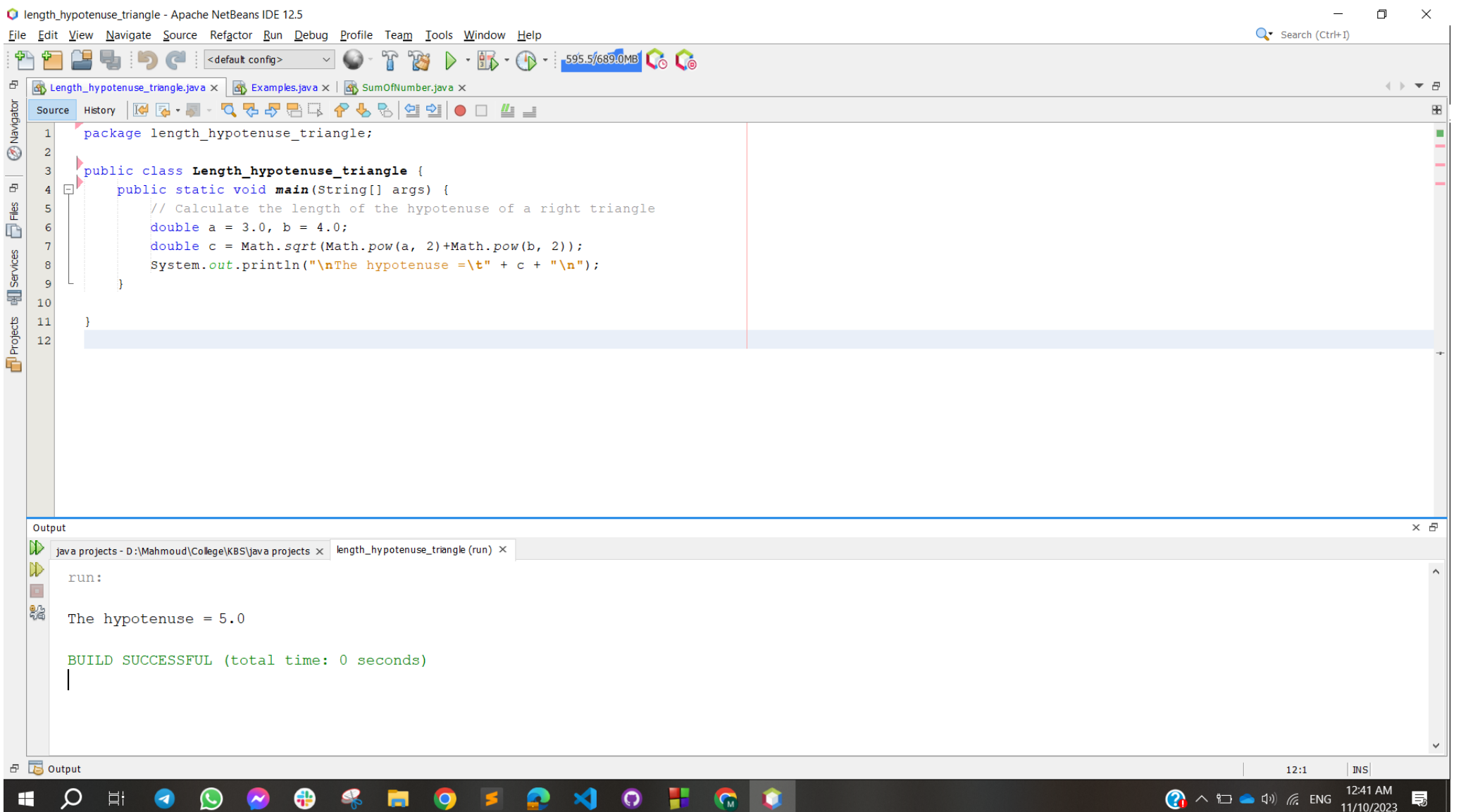
The screenshot shows the Apache NetBeans IDE 12.5 interface. The main editor window displays the `CircleArea.java` file. The code defines a `CircleArea` class with a `main` method that calculates the area of a circle with radius 2. The output window shows the result: "Circle area : 12.56".

```
1 package CircleArea;
2
3 public class CircleArea {
4     public static void main(String[] args) {
5         final double pi = 3.14;
6         double sum, r;
7         r = 2;
8         sum = pi * Math.pow(r, 2);
9         System.out.println("\nCircle area :\t" + sum);
10    }
11 }
12
```

Output:

```
run:
Circle area :    12.56
BUILD SUCCESSFUL (total time: 0 seconds)
```

### 4- برنامج لحساب طول الوتر للمثلث قائم الزاوية



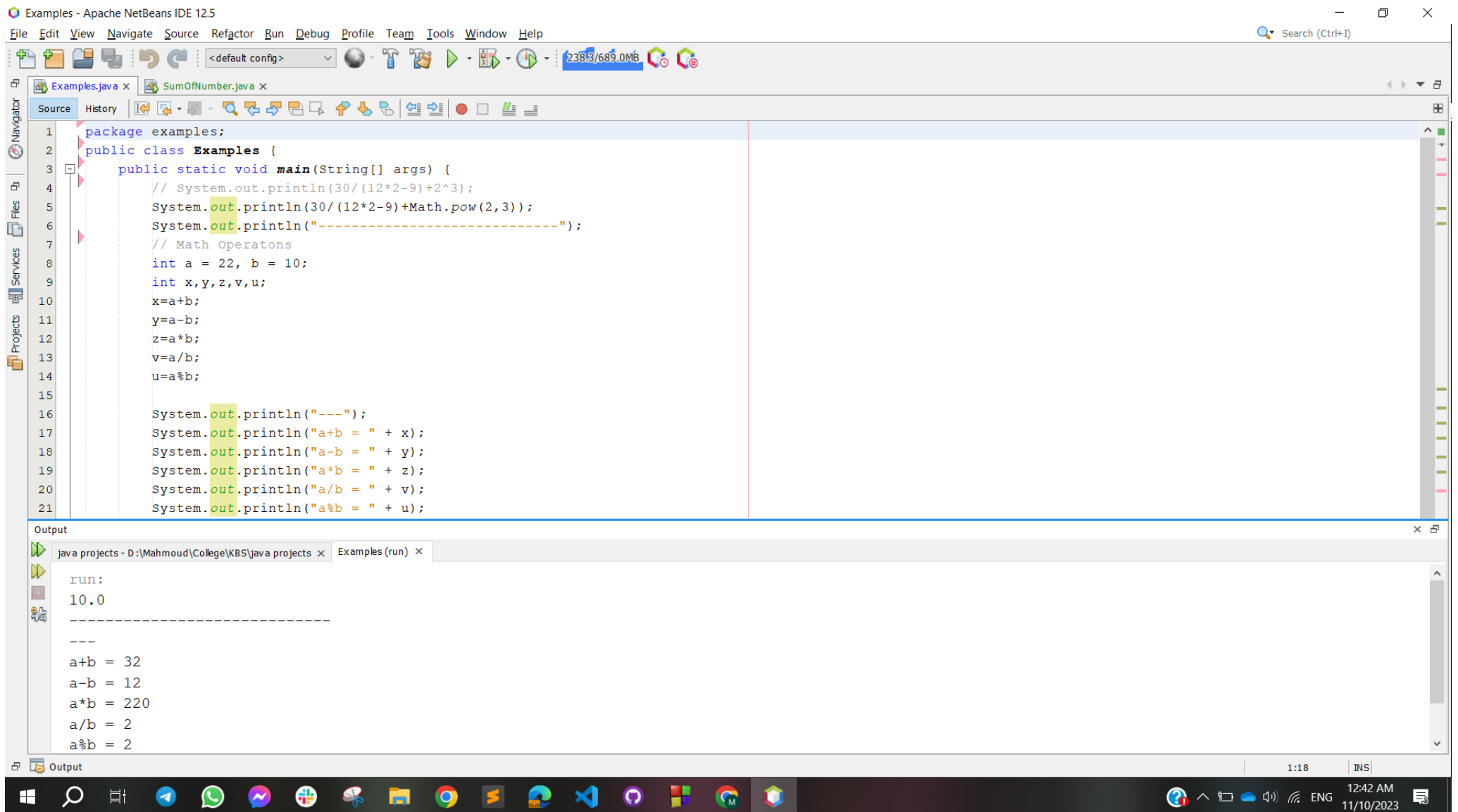
The screenshot shows the Apache NetBeans IDE 12.5 interface. The main editor window displays the `Length_hypotenuse_triangle.java` file. The code defines a `Length_hypotenuse_triangle` class with a `main` method that calculates the length of the hypotenuse of a right triangle with sides 3.0 and 4.0. The output window shows the result: "The hypotenuse = 5.0".

```
1 package length_hypotenuse_triangle;
2
3 public class Length_hypotenuse_triangle {
4     public static void main(String[] args) {
5         // Calculate the length of the hypotenuse of a right triangle
6         double a = 3.0, b = 4.0;
7         double c = Math.sqrt(Math.pow(a, 2)+Math.pow(b, 2));
8         System.out.println("\nThe hypotenuse =\t" + c + "\n");
9     }
10 }
11 }
12
```

Output:

```
run:
The hypotenuse = 5.0
BUILD SUCCESSFUL (total time: 0 seconds)
```

## 5- برنامج لإستخدام العمليات الحسابية

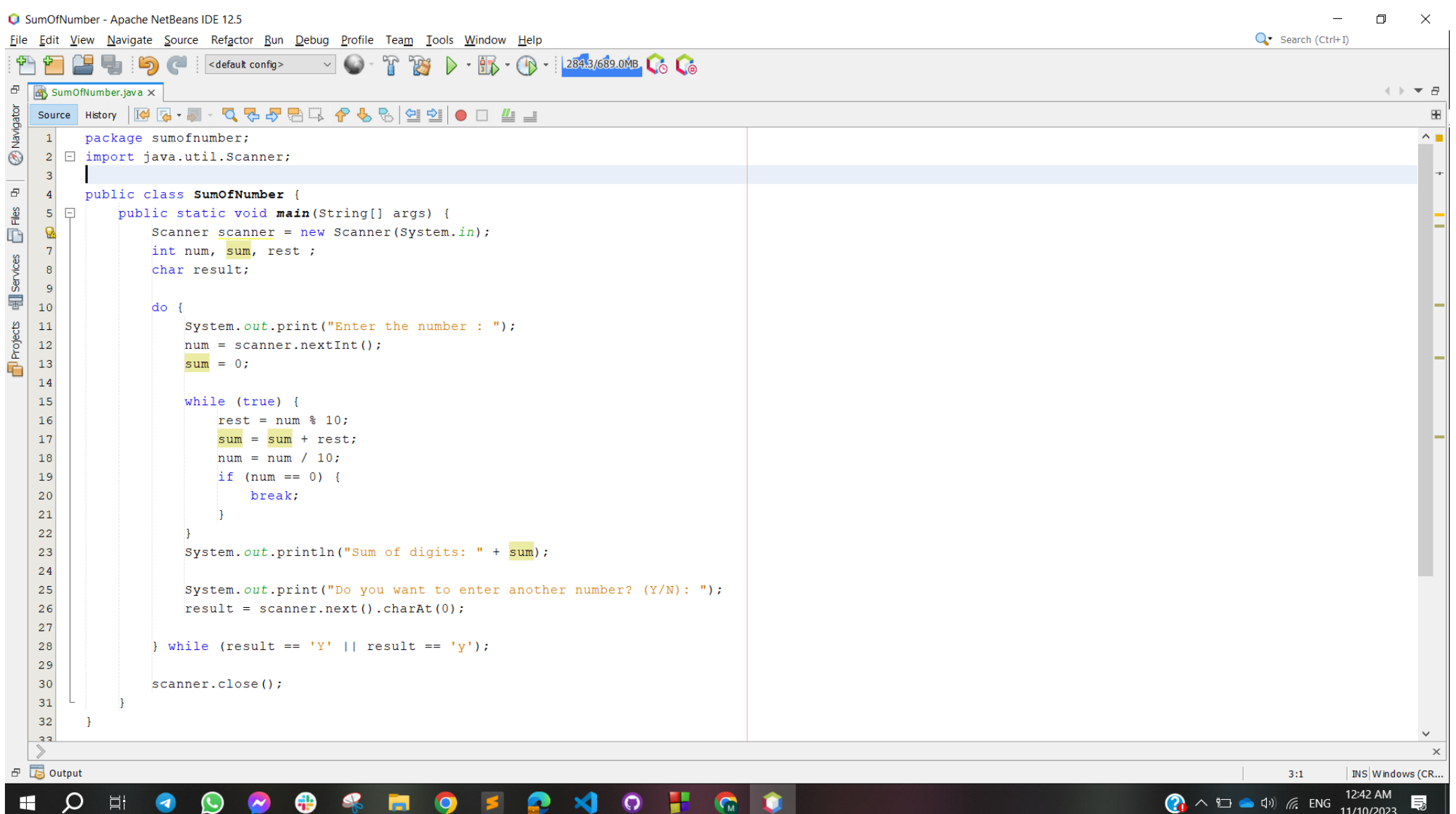


```
1 package examples;
2 public class Examples {
3     public static void main(String[] args) {
4         // System.out.println(30/(12*2-9)+2^3);
5         System.out.println(30/(12*2-9)+Math.pow(2,3));
6         System.out.println("-----");
7         // Math Operatons
8         int a = 22, b = 10;
9         int x,y,z,v,u;
10        x=a+b;
11        y=a-b;
12        z=a*b;
13        v=a/b;
14        u=a%b;
15
16        System.out.println("---");
17        System.out.println("a+b = " + x);
18        System.out.println("a-b = " + y);
19        System.out.println("a*b = " + z);
20        System.out.println("a/b = " + v);
21        System.out.println("a%b = " + u);
22    }
23 }
```

Output

```
run:
10.0
-----
---
a+b = 32
a-b = 12
a*b = 220
a/b = 2
a%b = 2
```

## 6- برنامج لحساب مجموع الرقم



```
1 package sumofnumber;
2 import java.util.Scanner;
3
4 public class SumOfNumber {
5     public static void main(String[] args) {
6         Scanner scanner = new Scanner(System.in);
7         int num, sum, rest ;
8         char result;
9
10        do {
11            System.out.print("Enter the number : ");
12            num = scanner.nextInt();
13            sum = 0;
14
15            while (true) {
16                rest = num % 10;
17                sum = sum + rest;
18                num = num / 10;
19                if (num == 0) {
20                    break;
21                }
22            }
23            System.out.println("Sum of digits: " + sum);
24
25            System.out.print("Do you want to enter another number? (Y/N): ");
26            result = scanner.next().charAt(0);
27
28        } while (result == 'Y' || result == 'y');
29
30        scanner.close();
31    }
32 }
```

Output

```
3:1 | INS | Windows (CR...
12:42 AM
11/10/2023
```

SumOfNumber - Apache NetBeans IDE 12.5

FileEditViewNavigateSourceRefactorRunDebugProfileTeamToolsWindowHelp

Search (Ctrl+I)

SumOfNumber.java x

SourceHistory

1package sumofnumber;

2import java.util.Scanner;

3

4public class SumOfNumber {

Output

java projects - D:\Mahmoud\College\KBS\java projects xSumOfNumber (run) x

run:

Enter the number : 789456

Sum of digits: 39

Do you want to enter another number? (Y/N): y

Enter the number : 123456789

Sum of digits: 45

Do you want to enter another number? (Y/N): n

BUILD SUCCESSFUL (total time: 23 seconds)

Output

3:1INS