**Project Objective**

As a developer, write a program to create an arithmetic calculator.

**Problem Statement**

As a developer, write a Java code to create a calculator to perform the four basic arithmetic operations (addition, subtraction, multiplication, and division).

**Source Code**

**package** com.org.arithmeticcalculator;

**import** java.util.Scanner;

**public** **class** ArithmeticCalculator {

**public** **static** **void** main(String[] args) {

Scanner sc = **new** Scanner(System.***in***);

**try** {

**int** c, a=0, b=0, o=0;

//do-while loop used to loop switch cases over and over unless user inputs 5

**do**

{

System.***out***.println("\nArithmetic Calculator\n");

System.***out***.println("-----Menu-----\n1.Addition\n2.Subtraction\n3.Multiplication\n4.Division\n5.Exit");

System.***out***.println("Enter your choice:");

c=sc.nextInt();

**switch**(c)

{

**case** 1:

//Addition

System.***out***.println("Enter 2 numbers:");

a=sc.nextInt();

b=sc.nextInt();

o=a+b;

System.***out***.println("The addition of "+a+" and "+b+" is: "+o);

**break**;

**case** 2:

//Subtraction

System.***out***.println("Enter 2 numbers:");

a=sc.nextInt();

b=sc.nextInt();

o=a-b;

System.***out***.println("The subtraction of "+a+" and "+b+" is: "+o);

**break**;

**case** 3:

//Multiplication

System.***out***.println("Enter 2 numbers:");

a=sc.nextInt();

b=sc.nextInt();

o=a\*b;

System.***out***.println("The multiplication of "+a+" and "+b+" is: "+o);

**break**;

**case** 4:

//Division

System.***out***.println("Enter 2 numbers:");

a=sc.nextInt();

b=sc.nextInt();

o=a/b;

System.***out***.println("The division of "+a+" and "+b+" is: "+o);

**break**;

**case** 5:

//Closing switch case

System.***out***.println("Exited");

**break**;

**default**:

System.***out***.println("Please enter valid choice!");

**break**;

}

}**while**(c!=5);

}

**catch** (Exception e)

{

e.printStackTrace();

}

**finally** {

sc.close();

}

}

}