import java.util.Scanner;

abstract class Calculation

{

double x, y, result;

abstract void calc();

}

class Add extends Calculation

{

void calc()

{

Scanner s = new Scanner(System.in);

System.out.println("Enter two numbers: ");

x = s.nextDouble();

y = s.nextDouble();

result = (x+y);

System.out.println("\nAddition result: "+result+"\n");

}

}

class Multiply extends Calculation

{

void calc()

{

Scanner s = new Scanner(System.in);

System.out.println("Enter two numbers: ");

x = s.nextDouble();

y = s.nextDouble();

result = x\*y;

System.out.println("\nMultiplication result: "+result+"\n");

}

}

class Subtract extends Calculation

{

void calc()

{

Scanner s = new Scanner(System.in);

System.out.println("Enter two numbers: ");

x = s.nextDouble();

y = s.nextDouble();

result =(x-y);

System.out.println("\nSubtraction result: "+result+"\n");

}

}

class Mathsop

{

public static void main(String[] args)

{

int choice;

Scanner s = new Scanner(System.in);

do

{

System.out.println("1.Addtion\n2.Multiplication\n3.Subtraction\n4.Exit\n\nEnter your choice: ");

choice = s.nextInt();

switch(choice)

{

case 1: Add a = new Add();

a.calc();

break;

case 2: Multiply m = new Multiply();

m.calc();

break;

case 3: Subtract sb = new Subtract();

sb.calc();

break;

case 4: System.out.println("Exiting the program!");

System.exit(0);

break;

default: System.out.println("\nInvalid Choice!\n");

}

}while(true);

}

}

