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**Year and Section: BSCS 3-B**

import java.util.Scanner;

public class Calcu {

static double num1, num2;

public static Scanner sc = new Scanner(System.in);

public static void menu()

{

System.out.println("[1] Addition");

System.out.println("[2] Subraction");

System.out.println("[3] Multiplication");

System.out.println("[4] Division");

System.out.println("[5] Exponent");

System.out.println("[6] Modulo");

System.out.println("[7] Exit");

System.out.print("\nEnter your choice: ");

}

public static void takers(){

Scanner sc = new Scanner(System.in);

System.out.print("Enter a number[1]:");

num1 = sc.nextDouble();

System.out.print("Enter a number[2]:");

num2 = sc.nextDouble();

sc.close();

}

public static void main(String[] args) throws Exception {

boolean done = false;

do{

System.out.println();

menu();

char operation = sc.next().charAt(0);

switch(operation){

case '1':{

takers();

System.out.println("\nThe sum is " + (num1 + num2));

break;

}

case '2':{

takers();

System.out.println("\nThe difference is " + (num1 - num2));

break;

}

case '3':{

takers();

System.out.println("\nThe product is " + (num1 \* num2));

break;

}

case '4':{

takers();

System.out.println("\nThe quotient is " + (num1 / num2));

break;

}case '5':{

System.out.print("Enter the Base number:");

num1 = sc.nextDouble();

System.out.print("Enter the Exponent:");

num2 = sc.nextDouble();

sc.close();

double expo = Math.pow(num1, num2);

System.out.println("\nThe exponent is " + (expo));

break;

}case '6':{

takers();

System.out.println("\nThe modulo is " + (num1 % num2));

break;

}

case '7':{

System.out.println("Exiting ...");

sc.close();

done = true;

break;

}

default:{System.out.println("Invalid Input!");

break;

}

}

}while(!done);

}

} 