Assignment Class

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1. Create a JAVA package containing basic operation to operate on two integers.

```
Program:
package arithmetic;
public class operator {
    public void operation(int N, String option, int num[]) {
        switch (option) {
            case "+":
                int sum = num[0]+num[1];
                System.out.println("\nSum of "+num[0] +" and "+ num[1] +" is "+ sum);
                break;
            case "-":
                int diff = num[0]-num[1];
                System.out.println("\nDifference of "+num[0] +" and "+ num[1] +" is "+ diff);
            case "*":
                int prod = num[0]*num[1];
                System.out.println("\nProduct of "+num[0] +" and "+ num[1] +" is "+ prod);
                break;
            case "/":
                float div = (float) num[0]/num[1];
                System.out.println("\noindent of "+num[0]+"/"+num[1] +" is "+ div);
            case "%":
                int mod = num[0]%num[1];
                System.out.println("\neminder of "+num[0]+"/"+num[1] +" is "+ mod);
                break;
            case "++":
                System.out.println("\n in Increment of "+num[0] +" by 1 is "+ (num[0]+1));
                System.out.println("Increment of "+num[1] +" by 1 is "+ (num[1]+1));
                break;
            case "--":
                System.out.println("\n = ment of "+num[0] +" by 1 is "+ (num[0]-1));
                System.out.println("Decrement of "+num[1] +" by 1 is "+ (num[1]-1));
                break;
            default:
                System.out.println("\nInvalid operation, try again.");
        }
   }
}
```

2. Write a JAVA program to import the package, get two numbers and operation from the user and perform the same.

```
Program:
```

}

```
import java.util.Scanner;
import arithmetic.operator;
public class program {
    static String selection() {
        Scanner select = new Scanner(System.in);
        System.out.println("\nSelect Mathematical Operation:");
        String operation[] = {"+ = Additon", "- = Subtraction", "* = Multiplication",
                    "/ = Division", "% = Modulus", "++ = Increment", "-- = Decrement"};
        for (String text: operation) {
            System.out.println(text);
        }
        System.out.println("\nEnter operation:");
        String option = select.nextLine();
        return option;
    }
   public static void main(String args[]) {
        Scanner noperand = new Scanner(System.in);
        Scanner value = new Scanner(System.in);
        String option = selection();
        int num[] = new int[2];
        for (int n = 1; n <= 2; n++) {</pre>
            System.out.println("\nEnter integer value "+ n +":");
            num[n-1] = value.nextInt();
        operator math = new operator();
        math.operation(2, option, num);
   }
```

Output:

```
Select Mathematical Operation:
+ = Additon
- = Subtraction
* = Multiplication
/ = Division
% = Modulus
++ = Increment
-- = Decrement

Enter operation:
/
Enter integer value 1:
64

Enter integer value 2:
73

Quotient of 64/73 is 0.8767123
```