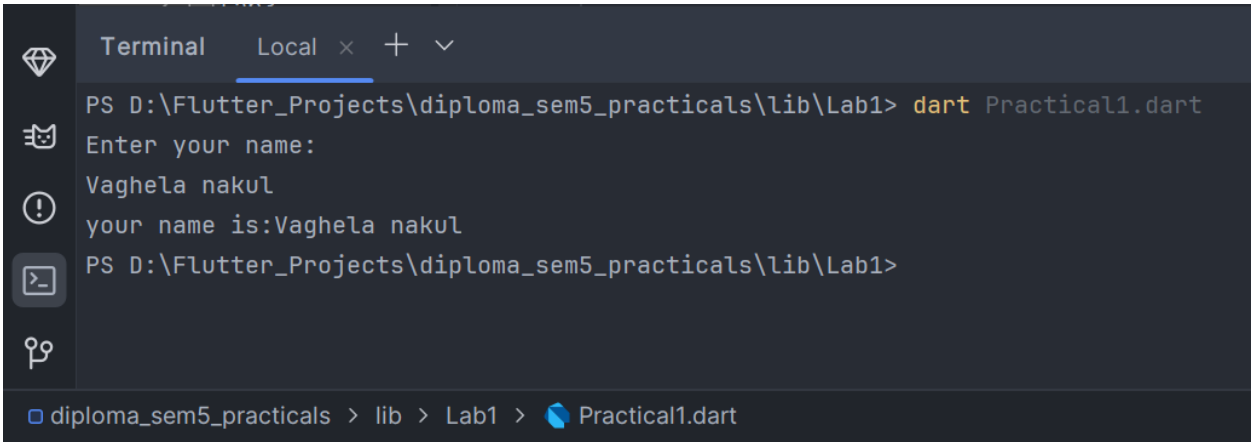
**1.1 W.A.P. to print your name in console. (A)**

**Code:**

```
import "dart:io";


void main() {
  // print("Vaghela Nakul");
  print("Enter your name:");
  String name = stdin.readLineSync()!;
  print("your name is:$name");
}
```

**Output:**



**1.2. W.A.P. to find percentage of 5 subject. (A)**

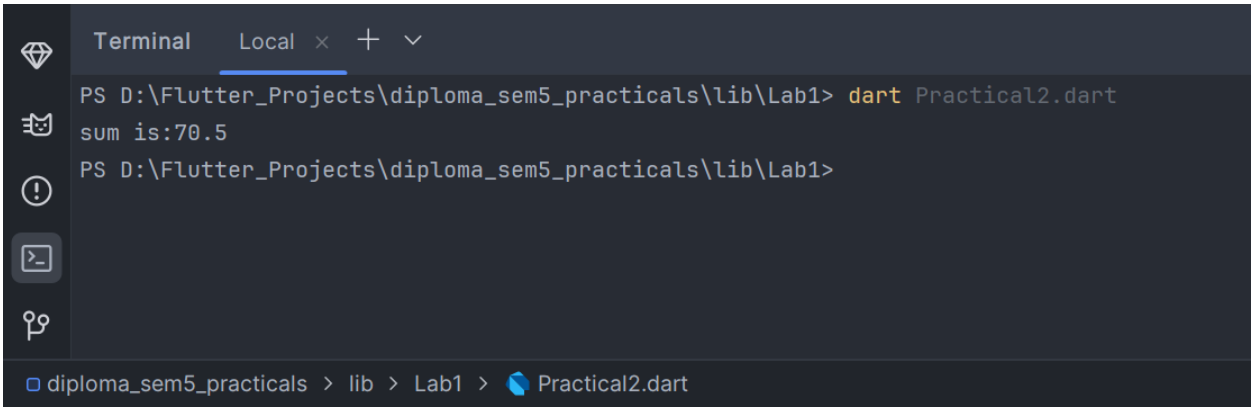
**Code:**

```
import 'dart:io';
void main() {
  double sub1 = 60;
  double sub2 = 70.65;
  double sub3 = 84;
  double sub4 = 59.4;
  double sub5 = 78.45;
  double sum = (sub1 + sub2 + sub3 + sub4 + sub5) / 5;
  print("sum is:$sum");

  // List marks = [];
  // for (int i = 0; i < 5; i++) {
  //   print("enter $i subject mark");
  //   double mark = double.parse(stdin.readLineSync()!);
  //   marks.add(mark);
  // }

  // double total = marks.reduce((a, b) => a + b);
  // double result = total/5;
  // print(result);
}
```

**Output:**



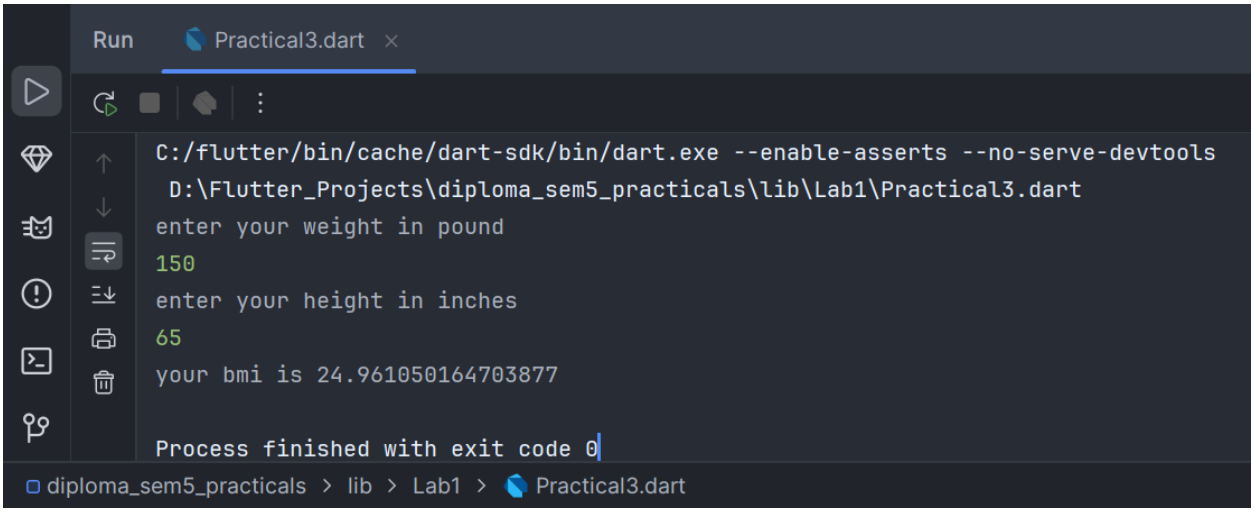
**1.3. Body Mass Index (BMI) is measure of health on weight. It can be calculated by taking your weight in kilograms and dividing by square of your height in meters. Write a program that prompts the user to enter weight in pounds and height in inches and display the BMI. Note: 1 pound=.45359237 Kg and 1 inch=0.254 meters. (A)**

**Code:**

```
import "dart:io";

void main() {
  print("enter your weight in pound");
  double weight = double.parse(stdin.readLineSync()!) * 0.45359237;
  print("enter your height in inches");
  double height = double.parse(stdin.readLineSync()!) * 0.0254;
  double bmi = weight / (height * height);
  print("your bmi is $bmi");
}
```

**Output:**



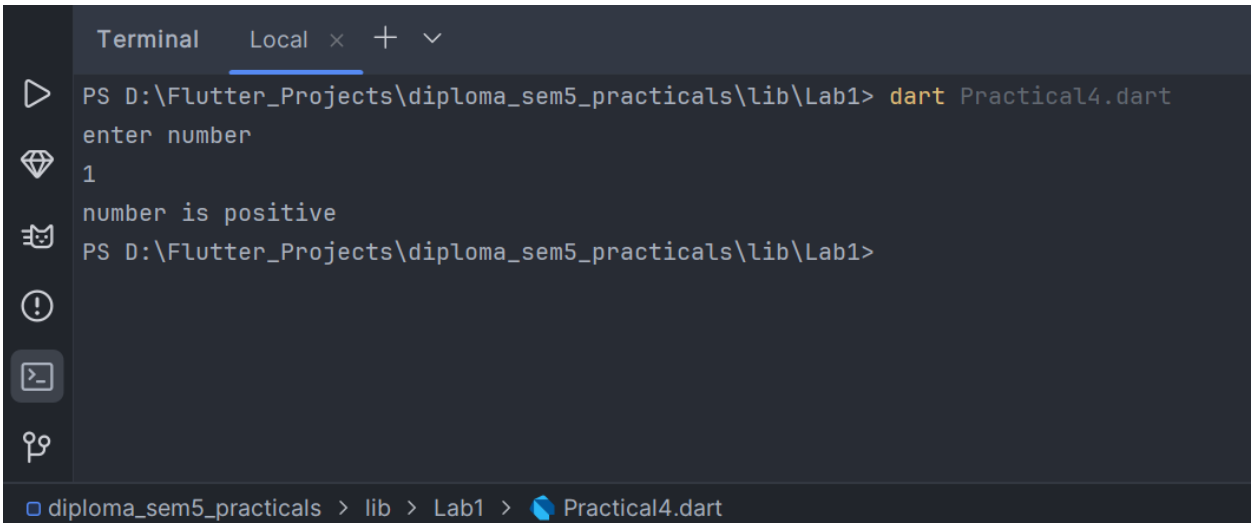
**1.4. W.A.P. to check whether the given number is positive or negative. (A)**

**Code:**

```
import "dart:io";

void main() {
  print("enter number");
  int n = int.parse(stdin.readLineSync()!);
  if (n < 0) {
    print("number is negative");
  } else if (n > 0)
    print("number is positive");
  else
    print("number is zero");
}
```

**Output:**



**1.5. W.A.P. to perform Addition, Subtraction, Multiplication, Division based on user choice using if, if..else..if, & switch. (B)**

**i)With if..else..if**

**Code:**

```
import "dart:io";

void main() {
  print("enter 1st number");
  int n1 = int.parse(stdin.readLineSync()!);
  print("enter 2nd number");
  int n2 = int.parse(stdin.readLineSync()!);
  print("""
  enter your choice:
  1 for addition,
  2 for subtraction,
  3 for multiplication,
  4 for division
""");
  int choice = int.parse(stdin.readLineSync()!);
  if (choice == 1) {
    print("addition of given numbers is:${n1 + n2}");
  } else if (choice == 2) {
    print("subtraction of given numbers is:${n1 - n2}");
  } else if (choice == 3) {
    print("multiplication of given numbers is:${n1 * n2}");
  } else {
    print("division of given numbers is:${n1 / n2}");
  }
}
```

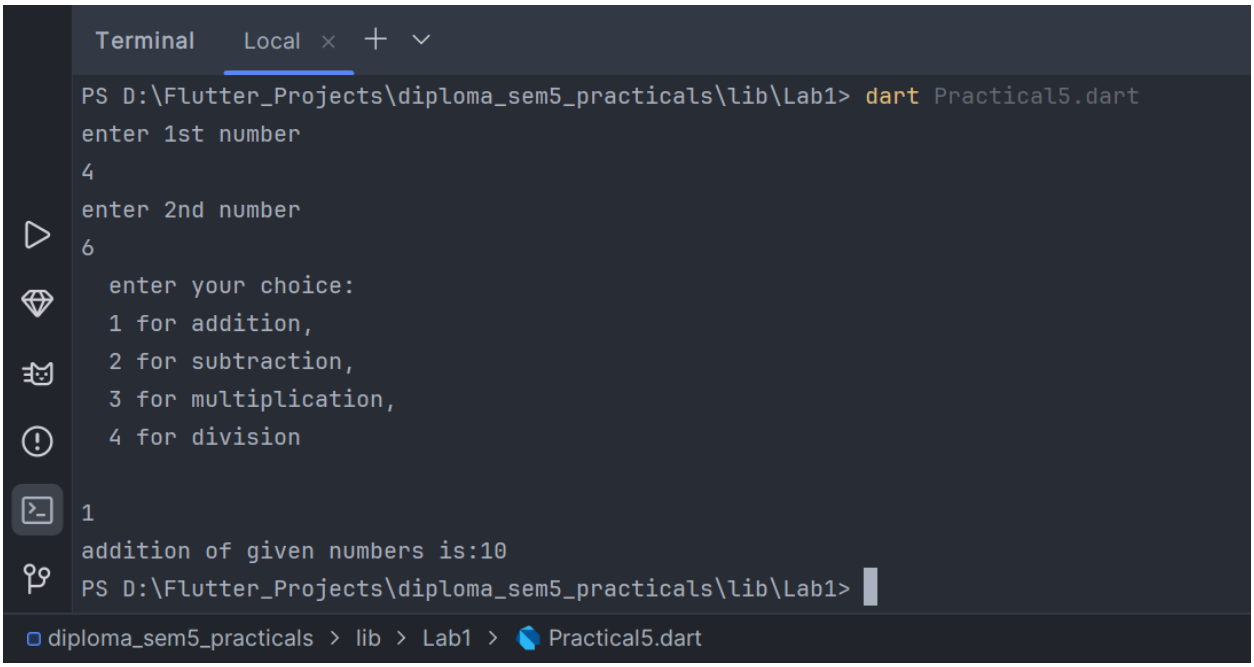
**ii)With switch case**

**Code:**

```
import "dart:io";

void main() {
  print("enter 1st number");
  int n1 = int.parse(stdin.readLineSync()!);
  print("enter 2nd number");
  int n2 = int.parse(stdin.readLineSync()!);
  print("""
  enter your choice:
  1 for addition,
  2 for subtraction,
  3 for multiplication,
  4 for division
""");
  int choice = int.parse(stdin.readLineSync()!);
  switch (choice) {
  case 1:
    print("addition of given numbers is:${n1 + n2}");
    break;
  case 2:
    print("subtraction of given numbers is:${n1 - n2}");
    break;
  case 3:
    print("multiplication of given numbers is:${n1 * n2}");
    break;
  case 4:
    print("division of given numbers is:${n1 / n2}");
    break;
  default:
    print("invalid input");
}
```

**Output:**


Terminal
Local
PS D:\Flutter_Projects\diploma_sem5_practicals\lib\Lab1> dart Practical5.dart
enter 1st number
4
enter 2nd number
6
enter your choice:
1 for addition,
2 for subtraction,
3 for multiplication,
4 for division
1
addition of given numbers is:10
PS D:\Flutter_Projects\diploma_sem5_practicals\lib\Lab1>
diploma_sem5_practicals > lib > Lab1 > Practical5.dart