

Name: Mujeeb Sheikh

Assignment No 2

Takes Two Numbers and Calculates their sum, difference, product, and quotient.

```
void main(){
    int num1 = 8;
    int num2 = 6;
    int sum = num1+num2;
    int diff = num1-num2;
    int pro = num1*num2;
    double quo = num1/num2;
    print('The Sum of Two Number is : $sum');
    print('The difference of Two Number is : $diff');
    print('The product of Two Number is : $pro');
    print('The quotient of Two Number is : $quo');
```

```
}
The Sum of Two Number is : 14
The difference of Two Number is : 2
The product of Two Number is : 48
The quotient of Two Number is : 1.3333333333333333
```

Develop a program that calculates the area of different shapes:

Square: area = side * side

Rectangle: area = length * width

```
void main(){
    double side = 4.5;
    double length = 2.2;
    double width = 8.3;
    double area = side * side;
    double Rectangle= length*width;
    print('The Area of a Square is :$area ');
    print('The Rectangel Area is :$Rectangle ');
```

```
}
PS C:\Users\mujee\OneDrive\Desktop\mujeeb> dart main.dart
The Area of a Square is :20.25
The Rectangel Area is :18.26
```

Covert Temperature from Fahrenheit to Celsius & Celsius to Fahrenheit as well.

$^{\circ}\text{F} = (\text{Temperature in Celsius } (^{\circ}\text{C}) * 9/5) + 32$

$^{\circ}\text{C} = (\text{Temperature in Fahrenheit } (^{\circ}\text{F}) - 32) * 5/9$

```
void main(){
  int C = 33;
  int f = 22;
  double temp = (C)*9/5+32;
  double farh = ((f)-32)*5/9;
  print('Temperature In Celsius is : $temp');
  print('Temperature In Fahrenheit is : $farh');
}
```

```
PS C:\Users\mujee\OneDrive\Desktop\mujeeb> dart main3.dart
Temperature In Celsius is : 91.4
Temperature In Fahrenheit is : -5.555555555555555
```

Create two integer variables length and breadth and assign values

```
void main(){
  int num = 4;
  int num2 = 6;
  print('Assignning Value num is : $num');
  print('Assignning Value num2 is : $num2');
}
```

```
PS C:\Users\mujee\OneDrive\Desktop\mujeeb> dart main4.dart
Assignning Value num is : 4
Assignning Value num2 is : 6
```

Create a Dart program that calculates the final grade of a student based on their scores in different subjects. Ensure that appropriate data types are used for storing scores and calculating the final grade

```
void main(){
int eng = 98;
int urdu = 74;
int sci = 40;
int marksobtain = eng + urdu + sci;
double per = marksobtain * 100 / 300;
if (per < 50){
    print("Your grade is F ");
}
else if(per > 50 && per < 60){
    print("Your grade is B");
}
else if(per > 60 && per < 70){

    print("Your grade is A");
}
else if(per > 70 && per < 100){

    print("Your grade is A+");
}

print('Your % is $per');
}
```

```
PS C:\Users\mujee\OneDrive\Desktop\mujeeb> dart main5.dart
Your grade is A+
Your % is 70.66666666666667
```