

IN THE NAME OF ALLAH

**WASSA**  
**UNHCR (WYE) PROJECT**  
**CODE4FUN**  
**FLUTTER COURSE**

## Assignment #4

### Basic Dart Practice Questions

1. Write a function in Dart to get your address (country, city, district, area, ...) information and print a summary of your address.
2. Write a function in Dart to get two numbers. If they are equal return 0, if number1 is bigger than number2 then return 1 otherwise return -1;
3. Write a program in Dart to print even numbers between intervals using function.
4. Write a function in Dart that generates random password.
5. Write a program in Dart that find the area of a circle using function.
6. Write a program in Dart to reverse a String using function.
7. Write a program in Dart to calculate power of a certain number. For e.g  $5^2=25$ .
8. Make an anonymous function to get second and convert it to minuets and then return it.
9. (Conversions between Celsius and Fahrenheit) Write a class that contains the following two methods:

`double celsiusToFahrenheit(double celsius)`

`double fahrenheitToCelsius(double fahrenheit)`

The formula for the conversion is:

$\text{fahrenheit} = (9.0 / 5) * \text{celsius} + 32$

$\text{celsius} = (5.0 / 9) * (\text{fahrenheit} - 32)$



10. (Sum the digits in an integer) Write a method that computes the sum of the digits in an integer. Use the following method header:

`int sumDigits(int n)`

For example, `sumDigits(234)` returns 9 ( $2 + 3 + 4$ ).

(Hint: Use the % operator to extract digits, and the / operator to remove the extracted digit. For instance, to extract 4 from 234, use  $234 \% 10 (= 4)$ . To remove 4 from 234, use  $234 / 10 (= 23)$ . Use a loop to repeatedly extract and remove the digit until all the digits are extracted. Write a test program that prompts the user to enter an integer and displays the sum of all its digits.

