

**STW300CEM Android Applications Development**  
**2<sup>nd</sup> Assignment**  
**Deadline : 12 April 2019**

1. Create an android app to calculate the **Body Mass Index(BMI)** using the below mentioned formula.

$$\text{BMI} = \text{kg}/\text{m}^2$$

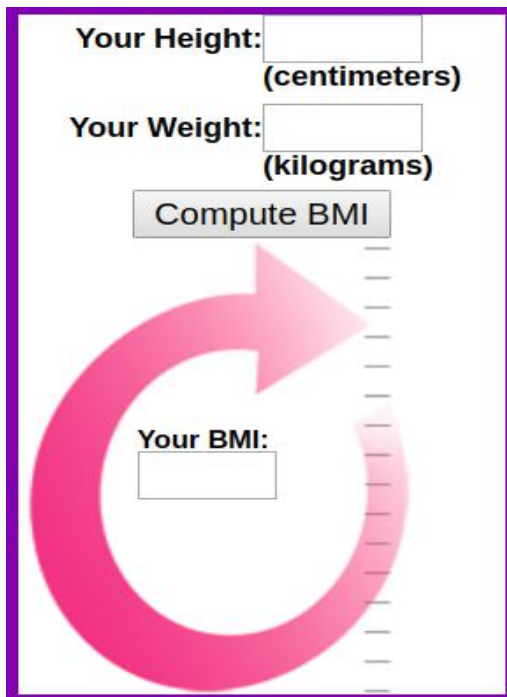
Where kg is a person's weight in kilograms and m<sup>2</sup> is their height in meters squared.

Refer the following BMI category in order to display the result of BMI.

BMI Categories :

Underweight	: <18.5
Normal Weight	: 18.5 to 24.9
Overweight	: 25-29.9
Obesity	: BMI of 30 or greater

Display the **BMI Category** using **Toast**.



The screenshot shows a mobile application interface with a purple border. At the top, there are two input fields: 'Your Height:' followed by a text box and '(centimeters)', and 'Your Weight:' followed by a text box and '(kilograms)'. Below these is a button labeled 'Compute BMI'. A large, thick, pink circular arrow points from the 'Compute BMI' button down to a text box labeled 'Your BMI:'. To the right of the 'Your BMI:' text box, there is a vertical list of horizontal lines, likely representing a BMI scale or categories.

2. Create an app to convert the numbers in figure (up to **3 digits**) to words.

e.g     1 = One  
       100 =One Hundred  
       901 = Nine Hundred and One

For this app choose your own design.

3. Create an app to calculate the tax amount. Take monthly salary from the user and calculate the tax amount if yearly salary is :

- a) 1 to 2,00,000 tax is 1%
- b) 200,000 to 350,000 tax is 1% of first 200,000+15% of remaining salary
- c) 350,000 to above tax is 1% of first 200,000 + 15% of next 150,000 + 25% of remaining salary

For this app choose your own design.

4. Create an app whose design is shown below. Make use of Style.xml for the design and add scroll view for the output textview to scroll down the output.

Type and Run

Make:  
BNW

Year:  
2012

Color:  
Black

Purchase price (£):  
38000

Engine size (litre):  
3.2

CREATE CAR    CREATE DIESEL

This is vehicle No. 1  
Manufacturer: Mini; Current value: 17600; Effective  
engine size: 1.12

This is vehicle No. 2  
Manufacturer: BNW; Current value: 30400; Effective

NOTE :

Make use of class and object in every question.

Upload all the four projects in GitHub and add screen-shots of the project output and code in word file .Add GitHub link for every answer in the word file. Before uploading to moodle convert doc file into .pdf file.