# Department of Computing

**CS 312: Software Construction**

**Class: BSCS 6 AB**

# Lab 12: Android Development with Kotlin

**Date: May 16th, 2018**

**Time: Wednesday (10:00-12:50 & 14:00 – 16:50)**

# Instructor: Zain ul Hassan Khan

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# Lab 13: BMI Calculator

## Introduction

Develop an Android Application in Kotlin that can measure the BMI Index of an individual once the weight and height of an individual is given.

**BMI Index.**

Body mass index is a measure of body fat and is commonly used within the health industry to determine whether your weight is healthy. BMI applies to both adult men and women and is the calculation of body weight in relation to height.

In this lab students have to design a BMI Calculator.

To work out your BMI:

Divide your weight in kilograms (kg) by your height in metres (m) then divide the answer by your height again to get your BMI For example: If you weigh 70kg and you're 1.75m tall, divide 70 by 1.75 – the answer is 40 then divide 40 by 1.75 – the answer is 22.9 your BMI is 22.9kg/m2

**Description**

**This Week Lab Task**

1. Look at the below reference side to get an understanding of writing Kotlin Applications in Android.

<https://dzone.com/articles/using-kotlin-in-android-studio-30-part-1>

<https://kotlinlang.org/docs/tutorials/>

https://medium.com/quick-code/top-tutorials-to-learn-kotlin-android-development-for-beginners-fad63af16996

## Deliverables

* Each submission is individual based with the following composition:
  + Source Code
  + Documentation(Introduction, Approach, Design, How to Run and Analysis)

## Grade Criteria

This lab will be graded on the following rubric: 