

***FIT2081  
Mobile Application  
Development***

***Week 7- W/S Quiz  
(Malaysia)***

## Question 1 (5 Marks)

**Suppose you have a table named 'food' with the following attributes:**

- Id: int (primary key)
- name: varchar(20)
- calories: int
- cost: float

Write a piece of code representing a method in a Dao interface that is part of a Room database implementation. If the method is invoked, all food with 'calories' of more than 90 and costs less than 270 must be deleted.

Note: suggest a name for your method

## Question 2 (5 Marks)

```
1 package com.fit2081.rooms.provider;
2 import android.app.Application;
3 import androidx.lifecycle.LiveData;
4
5 import java.util.List;
6
7 public class FoodRepository {
8
9     private FoodDao mFoodDao;
10    private LiveData<List<Food>> mAllFoods;
11
12    FoodRepository(Application application) {
13        FoodDatabase db = FoodDatabase.getDatabase(application);
14        mFoodDao = db.foodDao();
15        mAllFoods = mFoodDao.getAllFood();
16    }
17    LiveData<List<Food>> getAllFoods() {
18        return mAllFoods;
19    }
20    void insert(Food food) {
21        FoodDatabase.databaseWriteExecutor.execute(() -> mFoodDao.addFood(food));
22    }
23
24
25 }
```

Given the following code (on your left):

1. What is the role of LiveData (see line 10)?
2. What is the role of "databaseWriteExecutor.execute()" (see line 21)?
3. What is the role of the class "FoodRepository" in the Room database?