



UNIVERSITY OF  
**SINDH**

**Assignment**  
**Of**  
**Android Mobile Application**  
**Development**

**Submitted By:**  
**Mubashir Ali S/O**  
**Mansoor Ali**  
**(2k20/ITE/73)Group(A)**

**Submitted To:**  
**Sir.Zeeshan Bhatti**  
**Professor Dept:**  
**Information Technology**

# **LAB Projects for Week-1-13**

## **Lab Task 1 to 16 - Last Date Sun-8 Jan 2023**

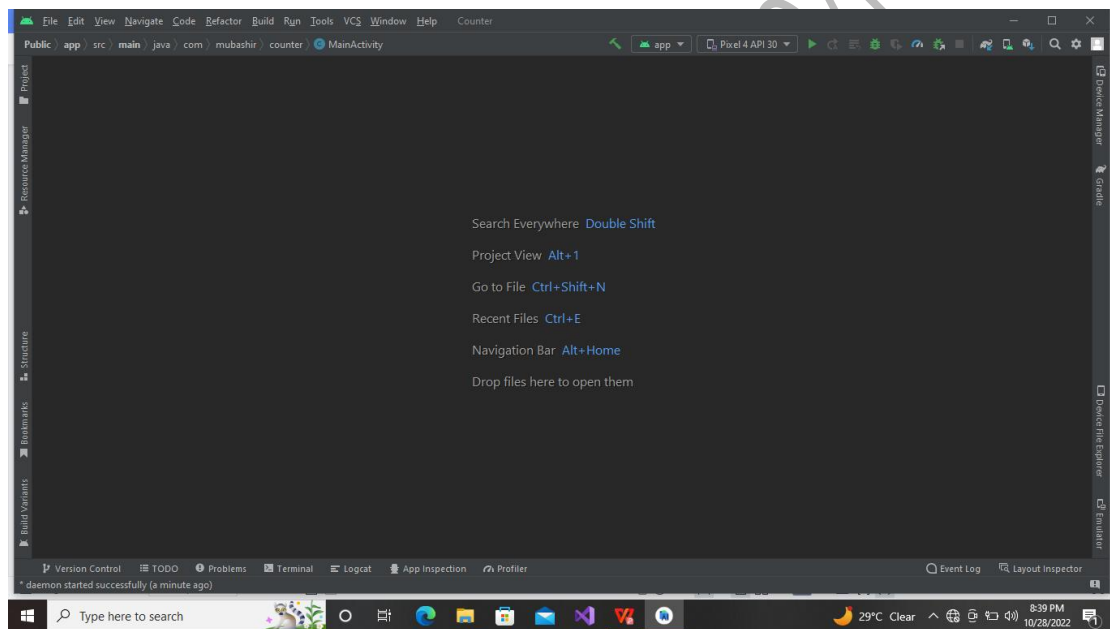
### **Week-1**

#### **TASK 1:**

##### **Download and Install Android Studio.**

Every student must download and install Android Studio in this personal systems.

#### **Output:**



#### **TASK 2:**

##### **Create a simple Counter App in Android Studio.**

The requirements of this app are that there needs to be a Count Button, which increments a number and display it on screen ever time the button is clicked as shown in figure below.

#### **Source Code:**

```
app | src | main | java | com | mubashir | counter | MainActivity | onCreate | anonymous OnClickListener | onClick | app | Pixel 4 API 30 |  
activity_main.xml | MainActivity.java |  
1 package com.mubashir.counter;  
2  
3 import ...  
4  
5  
6  
7  
8  
9  
10 public class MainActivity extends AppCompatActivity {  
11     int Counter;  
12  
13  
14     @Override  
15     protected void onCreate(Bundle savedInstanceState) {  
16         super.onCreate(savedInstanceState);  
17         setContentView(R.layout.activity_main);  
18  
19         TextView txtCount = findViewById(R.id.txtCounter);  
20         Button btnCount = findViewById(R.id.btnCounter);  
21         Button btnReset = findViewById(R.id.btnReset);  
22  
23         Counter=0;  
24         btnCount.setOnClickListener(new View.OnClickListener(){  
25             @Override  
26             public void onClick(View view) {  
27                 Counter++;  
28                 txtCount.setText(""+Counter);  
29             }  
30         });  
31  
32         btnReset.setOnClickListener(new View.OnClickListener(){  
33             @Override  
34             public void onClick(View view) {  
35                 Counter=0;  
36                 txtCount.setText(""+Counter);  
37             }  
38         });  
39     }  
40 }  
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## Week-2

### TASK 3:

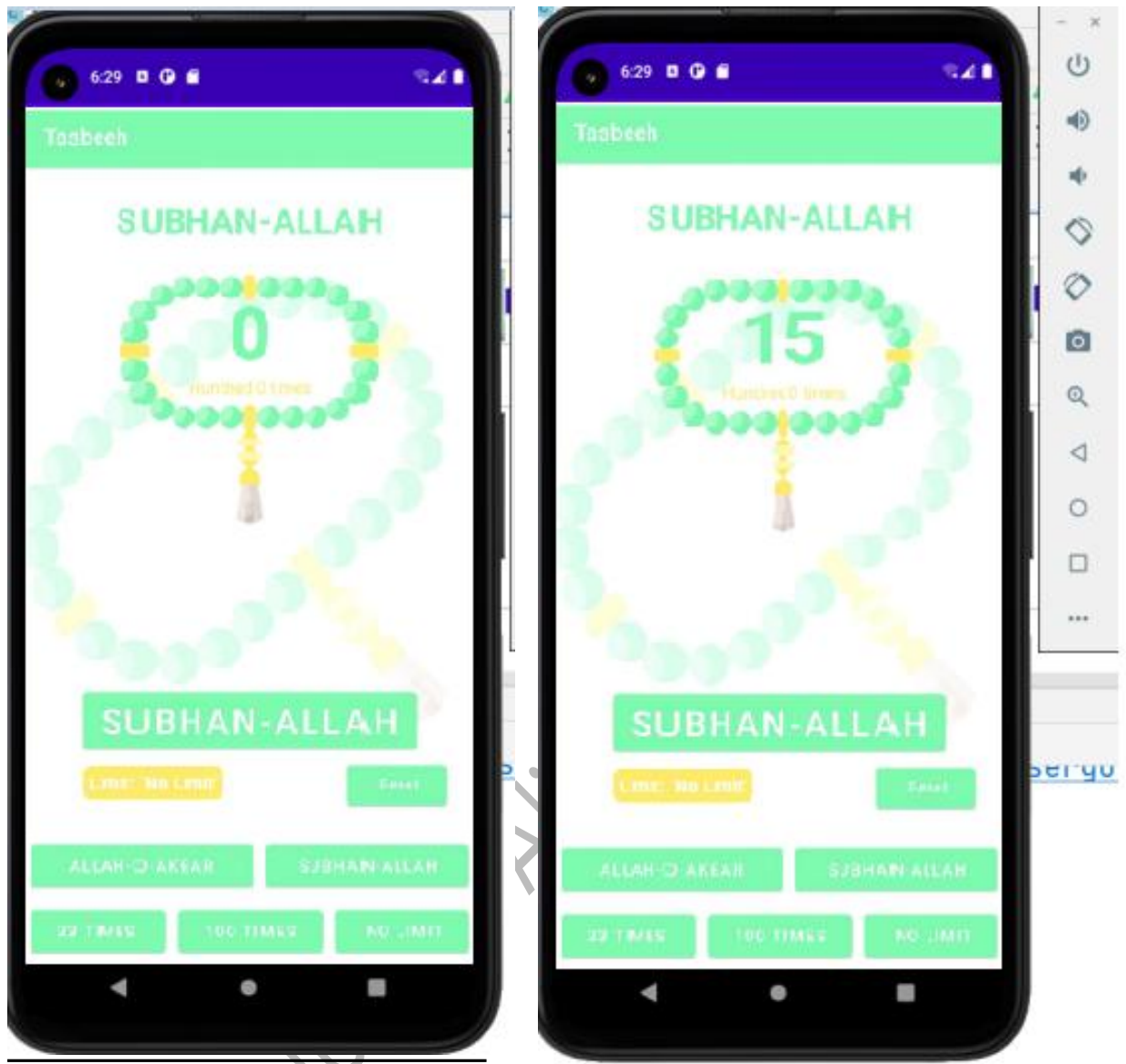
#### **Create a Tasbeeh App in Android Studio.**

The requirements of this app are that there needs to be a 5 buttons, button one should count the Tasbeeh, then each separate button for limiting the count to 33 times, 100 times, No limit and reset button, which increments a number and display it on screen ever time the button is clicked as shown in figure below.

### Source Code:

```
package com.mubashir.tasbeeh;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
    int counter;
    int limit;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        TextView txtCount = findViewById(R.id.txtCounter);
        TextView btnCount = findViewById(R.id.btnTasbeeh);
        Button btn33 = findViewById(R.id.btn33);
        Button btn100 = findViewById(R.id.btn100);
        Button btnReset = findViewById(R.id.btnReset);
        Button btnnoLimit = findViewById(R.id.btnNolimit);
        counter=0;
        limit=0;
        btnCount.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                //counter++;
                if(limit==33 && counter<33){
                    counter++;
                }
                else if(limit==100 && counter<100){
                    counter++;
                }
            }
        })
    }
}
```

**Output:**



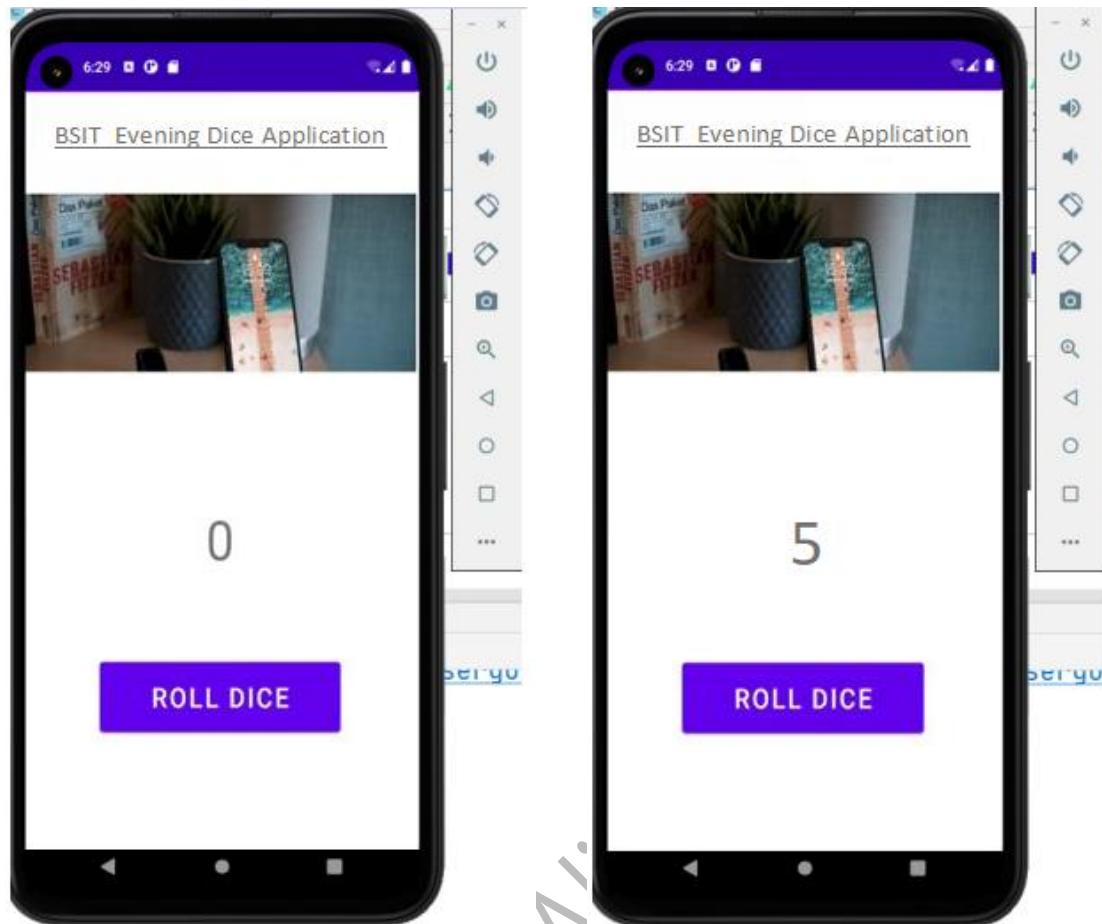
### Week-3

#### **TASK 4:**

Develop a Roll Dice App .

Create a Simple dice app with simple GUI that shows a TextView in Center and a Button. The must have an Image as header. When Button is clicked, a Random Number is generated between 1 and 6 and shown on the TextView as Shown in Figure 4.

#### **Output:**



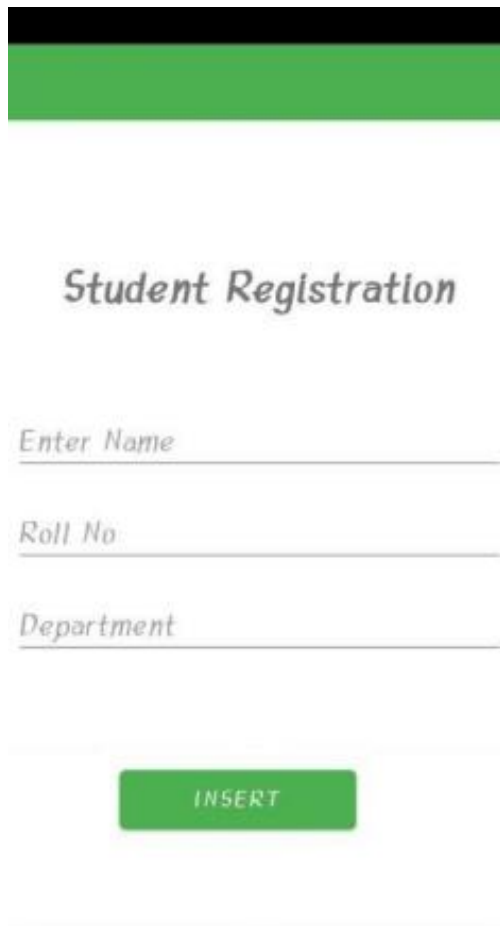
## **Week-4**

### **TASK 5:**

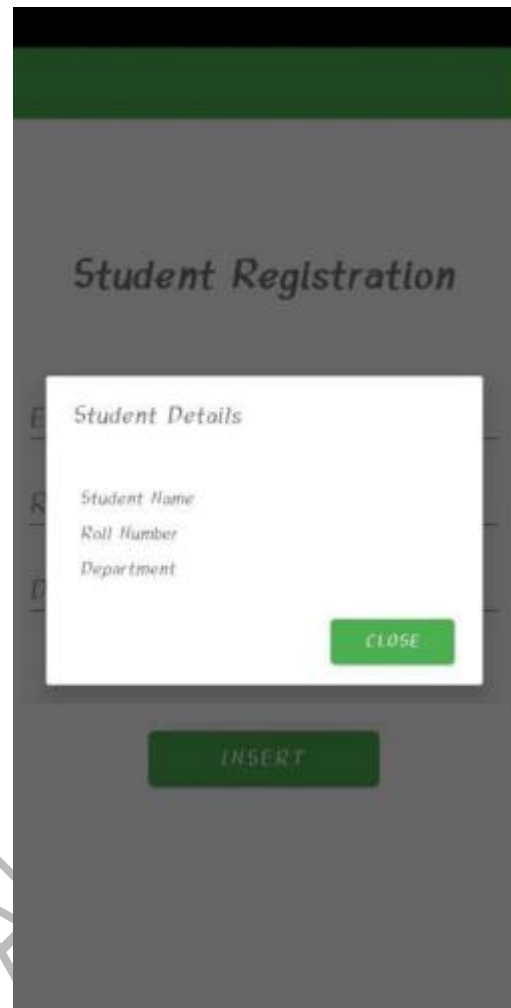
#### **Create Login App in Android Studio**

In this task, you have to create a Simple Login User Interface, with Header Image and Text fields to enter username and password, then button to login. Also create Second Activity for Registration page for new User with relevant fields.

### **Output:**



A screenshot of a web form titled "Student Registration". The form has a green header bar. Below the title, there are three input fields: "Enter Name", "Roll No", and "Department". At the bottom of the form is a green button labeled "INSERT".



A screenshot of the same "Student Registration" form, but with a modal dialog box open. The modal is titled "Student Details" and contains three input fields: "Student Name", "Roll Number", and "Department". There is a green "CLOSE" button at the bottom right of the modal. The "INSERT" button from the main form is still visible below the modal.

## Week-5

### **TASK 6:**

**Develop and Simple calculator with ADD .**

Create a button. AS soon as the button is pressed, the value from both text fields is taken and addition is done.

**Output:**

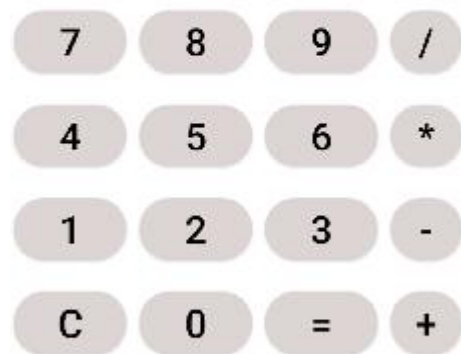
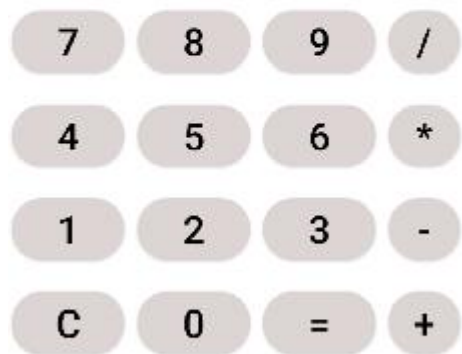


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### **TASK 7:**

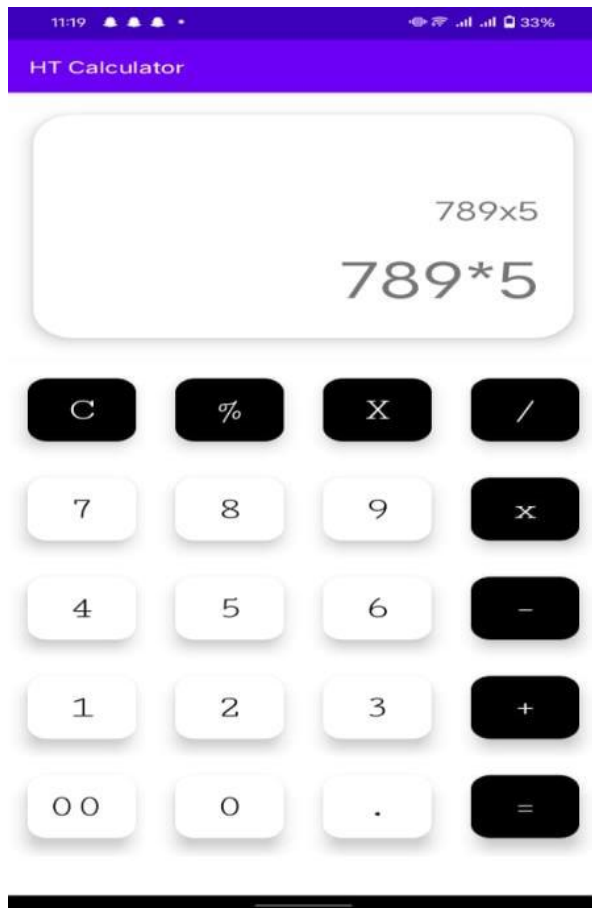
**Develop and Simple calculator with ADD .**

Create a button. AS soon as the button is pressed, the value from both text fields is taken and addition is done.

**Output:**



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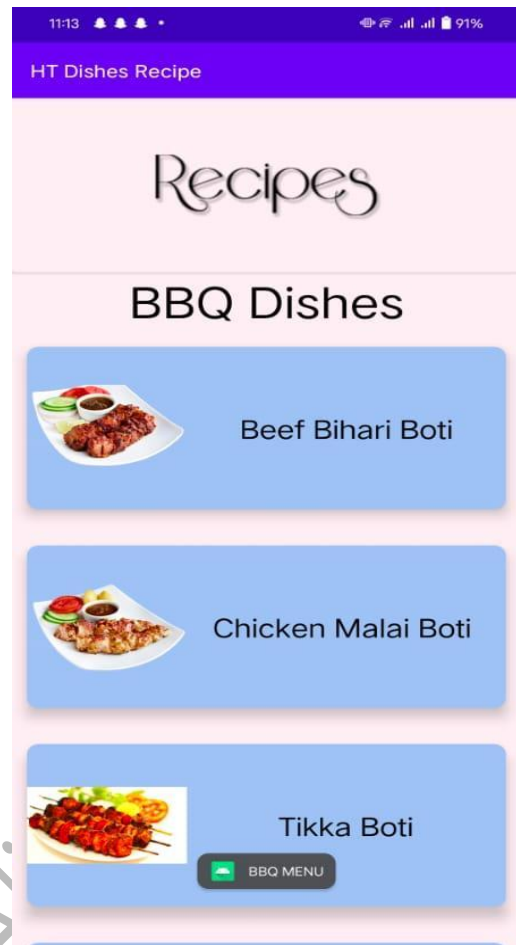
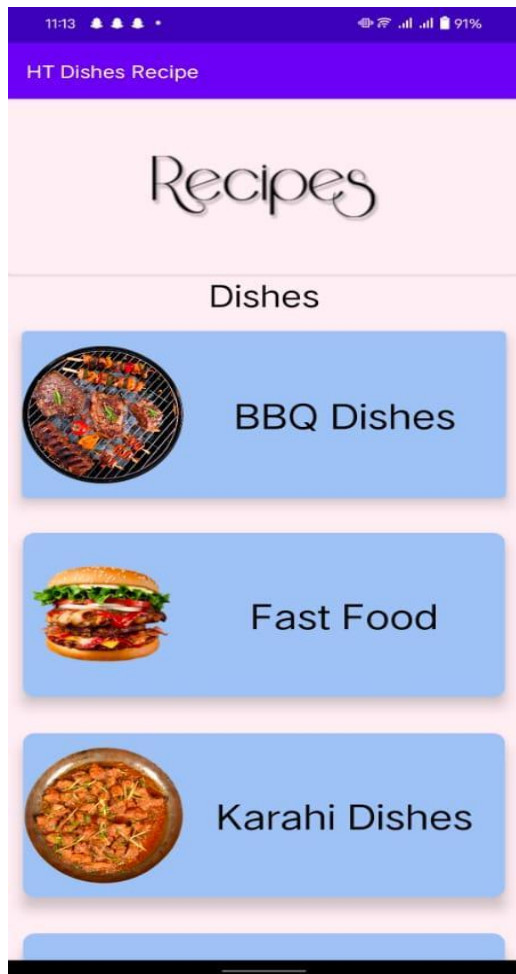
## Week-6

### **TASK 8:**

Dishes Recipe App

**Note:** This is an application for viewing the recipe of various dishes Recipe. By making the app I have used linear layout with card-view.

### **Output:**



## Week-7

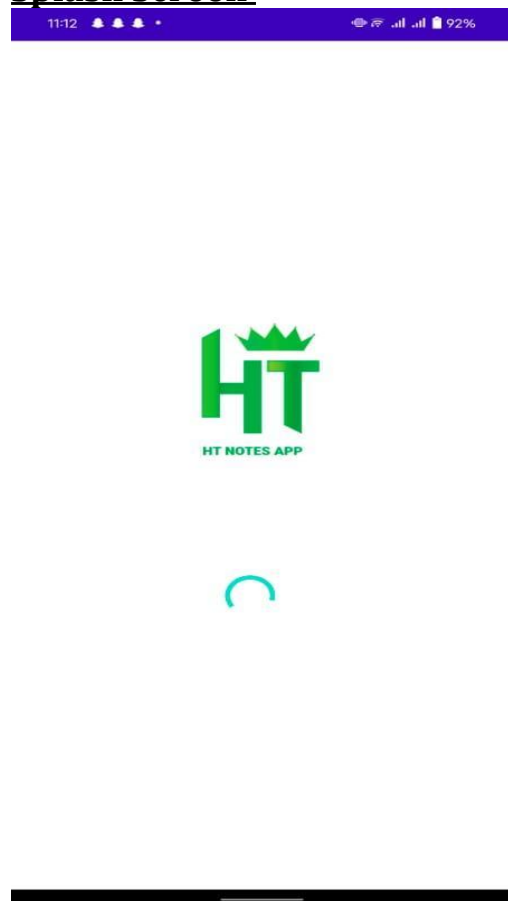
### TASK 9:

HT Notes App

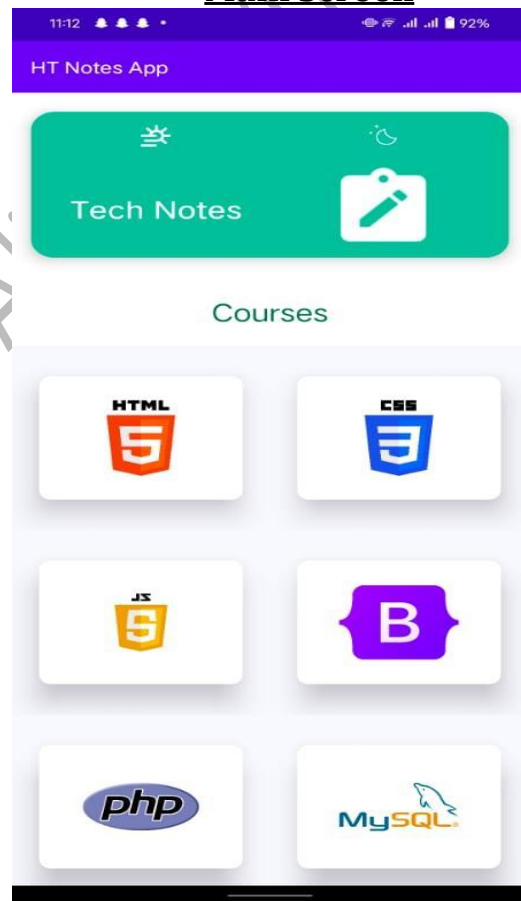
**Note:** This is a beautiful dynamic app for university notes including all programming subjects. Using concept of linear layout and with splash screen and card-view in my app. I have used animation as well in my app. **Specially** I have made this app just in **3 activities** using put Extra concept.

### Output:

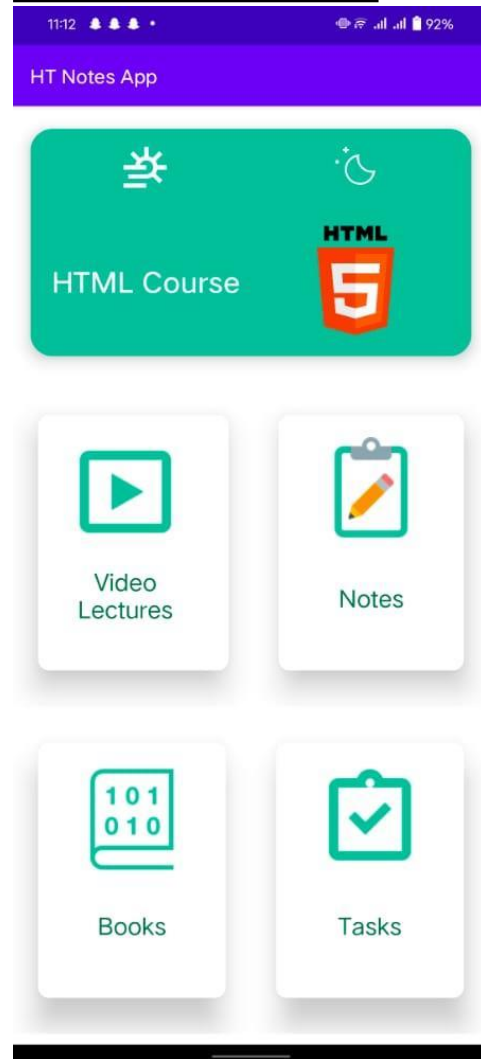
#### Splash Screen



#### Main Screen



### **Screen 3 for Contents**

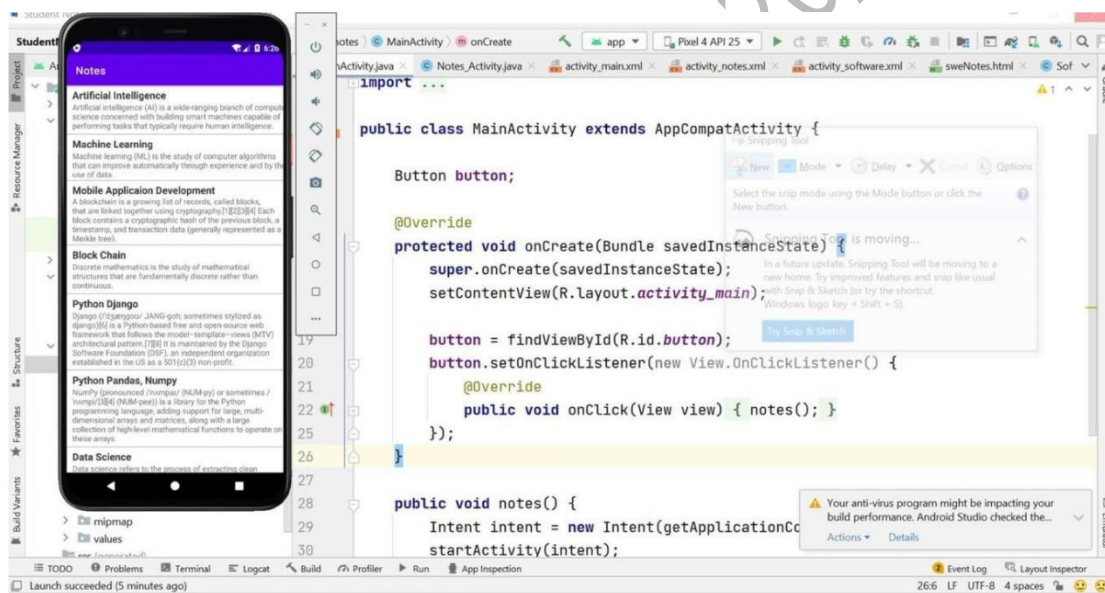
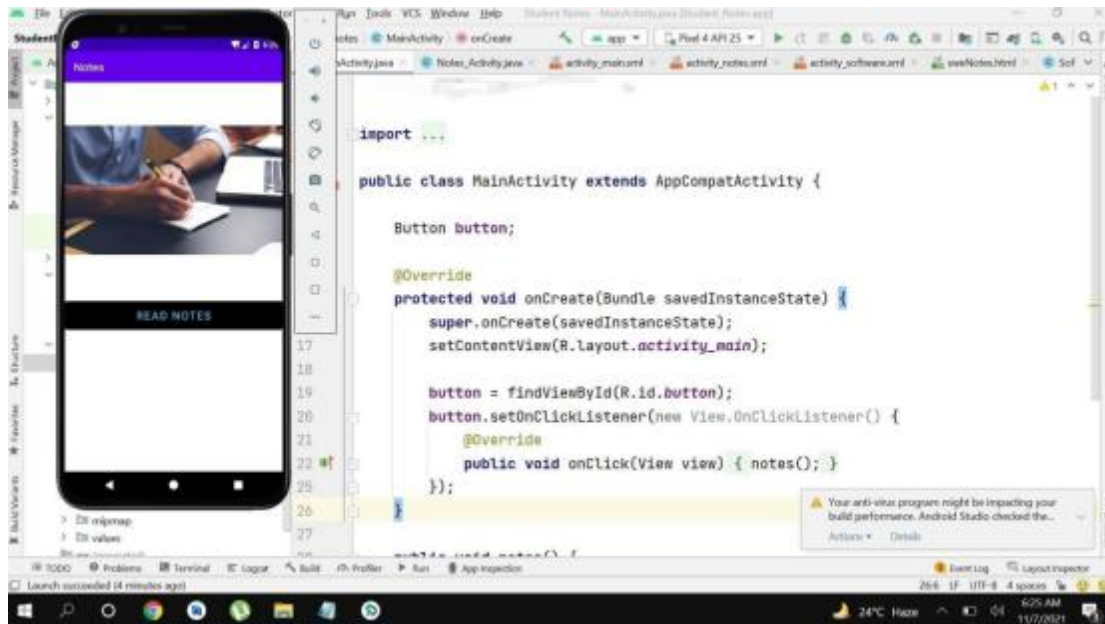


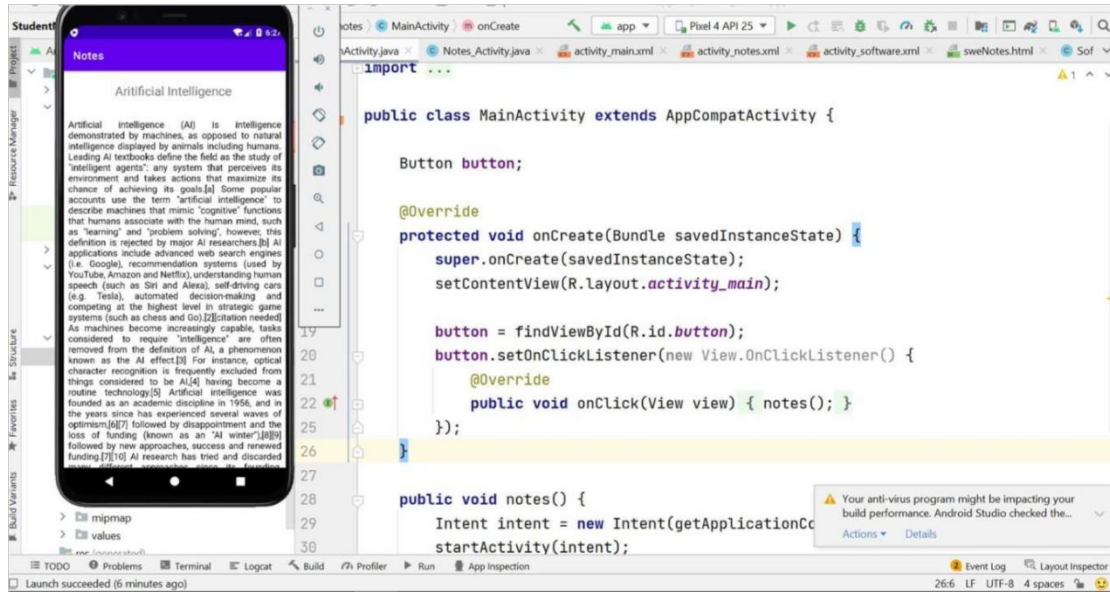
## **Week-8**

### **TASK 10:**

Create a University Notes App. Create a Notes/tutorials APP in Android on a particular subject, like HTML Notes App, or Android Notes App with Web view as discussed in the following requirements. Requirement: App with Notes on HTML only. Complete App. With Main Screen Showing Various Chapters. Then Second Screen Should show each topic inside the Chapter. Then Finally each topic notes should appear. The final notes screen should contain, Syntax, Example Code, and Final Output.

### **Source Code & Output:**



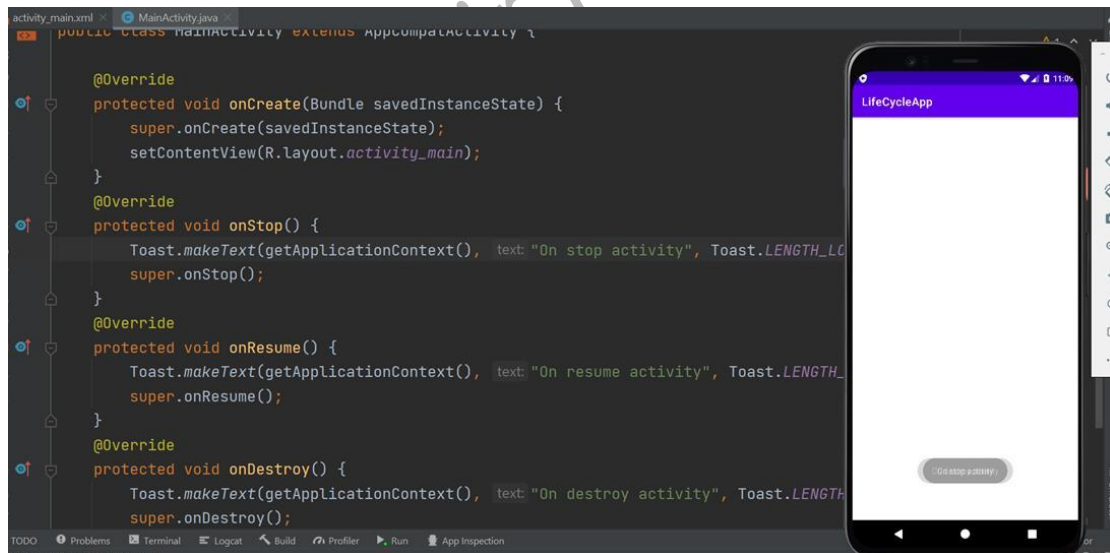


## Week-9

### **TASK 11:**

Create a basic app to demonstrate Android Activity Life Cycle. Watch the following lectures.

### **Source Code & Output:**

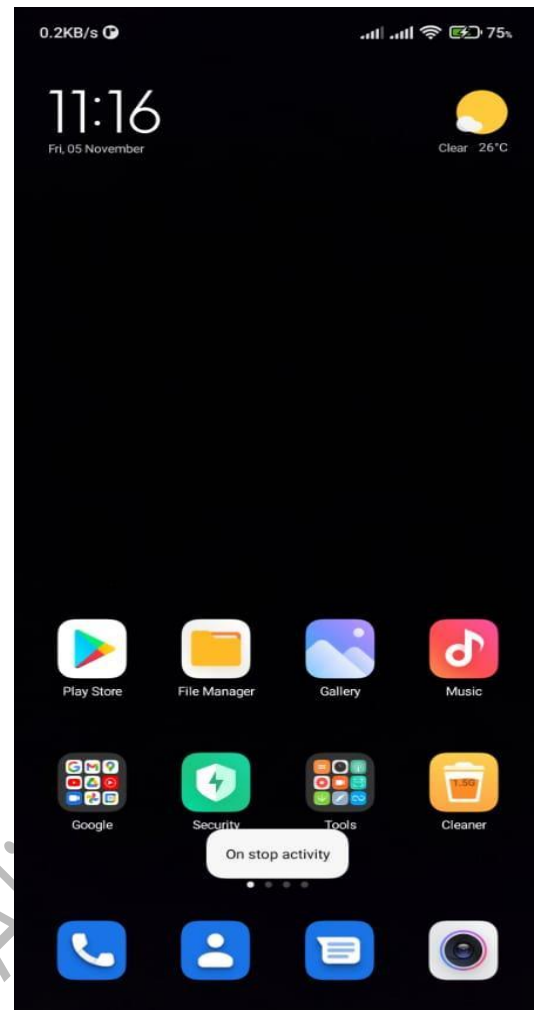


### **Output:**





On resume activity



## Week-10

### **TASK 12:**

Create a Tourism Guide App for any location Create a simple app called Tourism Guide with at least 6 cities, their Famous places to visit, restaurants etc. (or you can choose any other country or city or place).

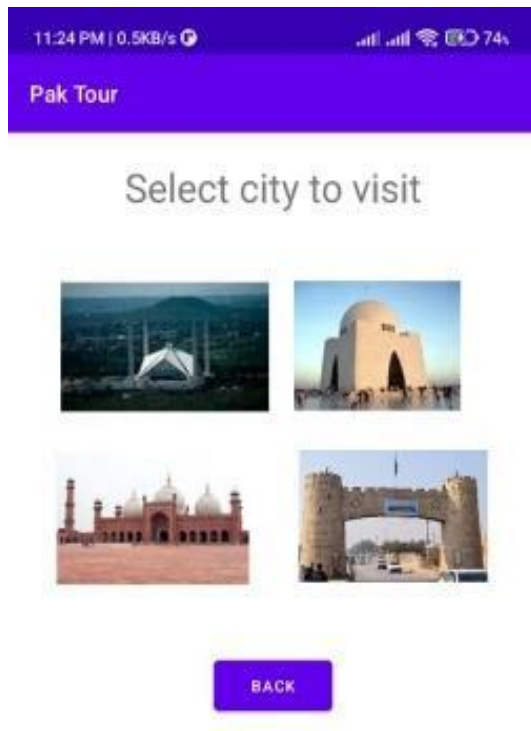
### **Source Code:**

```

11 public class MainActivity extends AppCompatActivity {
12
13     Button tourBtn;
14
15     @Override
16     protected void onCreate(Bundle savedInstanceState) {
17         super.onCreate(savedInstanceState);
18         setContentView(R.layout.activity_main);
19
20         tourBtn = findViewById(R.id.tourBtn);
21
22         tourBtn.setOnClickListener(new View.OnClickListener() {
23             @Override
24             public void onClick(View view) { cityToVisit(); }
25         });
26
27     }
28
29     public void cityToVisit() {
30         Intent intent = new Intent( packageContext: this, CityToVisit_Activity.class);
31         startActivity(intent);
32     }

```

## Output:



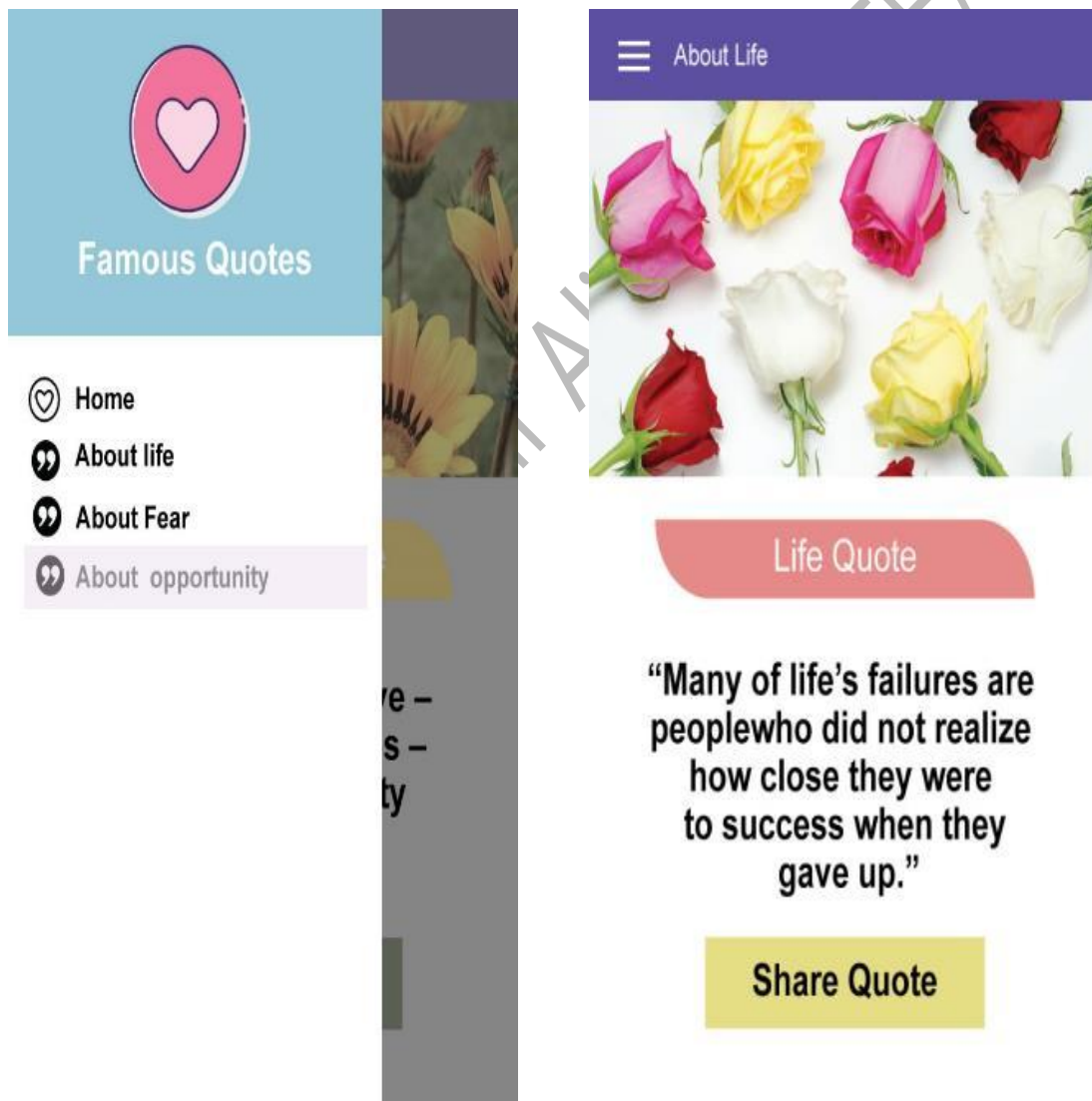
## Week-11

### **TASK 13:**

Create a Full app on any of the Topics below using **Navigation Drawer** in Android Studio. Use the default Navigation Drawer in Android studio. Change the Navigation menu Item and fragments to show your own content.

- App Idea 4. Quotes/Poems of Allma Iqbal
- App Idea 5. Famous Poet Poetry App,
- App Idea 6. App for Quranic Ayats on Various Topics

### **Output:**





#### Fear Quote

**“Never let the fear of striking out keep you from playing the game.”**  
Babe Ruth

Share Quote



#### opportunity Quote

**“Everything negative – pressure, challenges – is all an opportunity for me to rise.”**

Share Quote

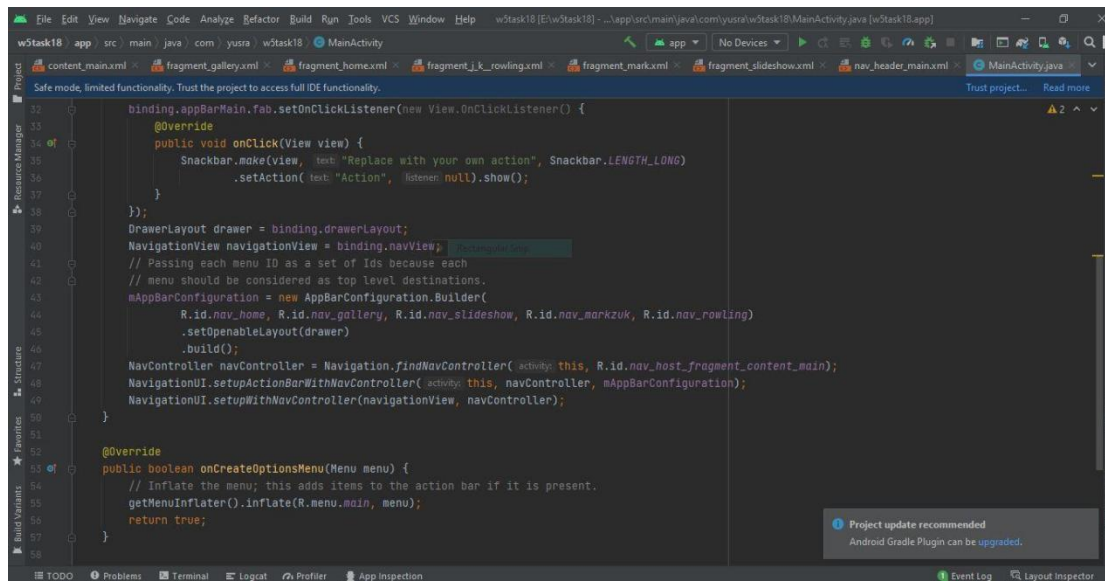
## Week-12

### **TASK 14:**

Create a Full app on any of the Topics below using **Navigation Drawer** in Android Studio. Use the default Navigation Drawer in Android studio. Change the Navigation menu Item and fragments to show your own content.

- App Idea 1.      Navigation Drawer based Islamic Quotes App.
- App Idea 2.      Famous Hadith on Multiple Topics
- App Idea 3.      Quotes of Quaid-e-azam

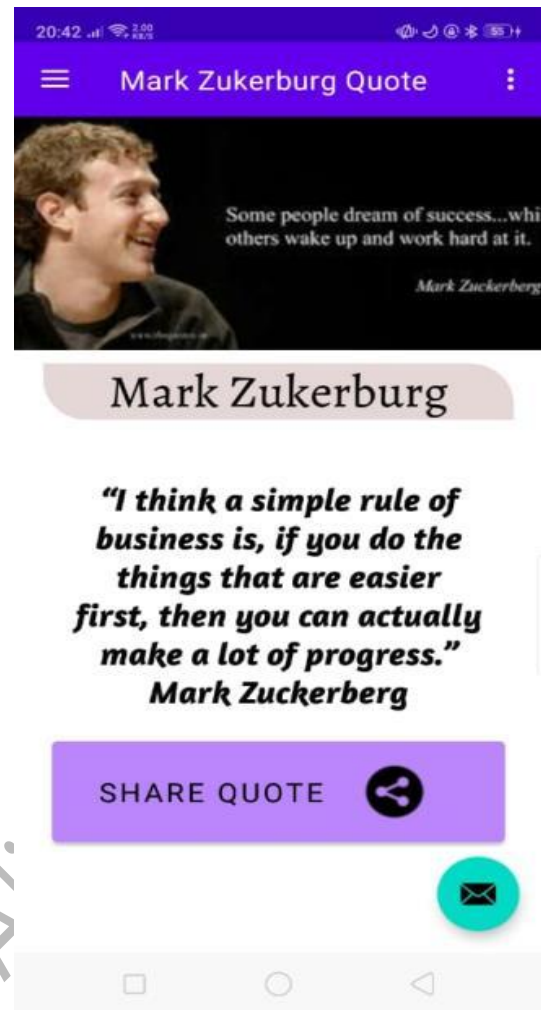
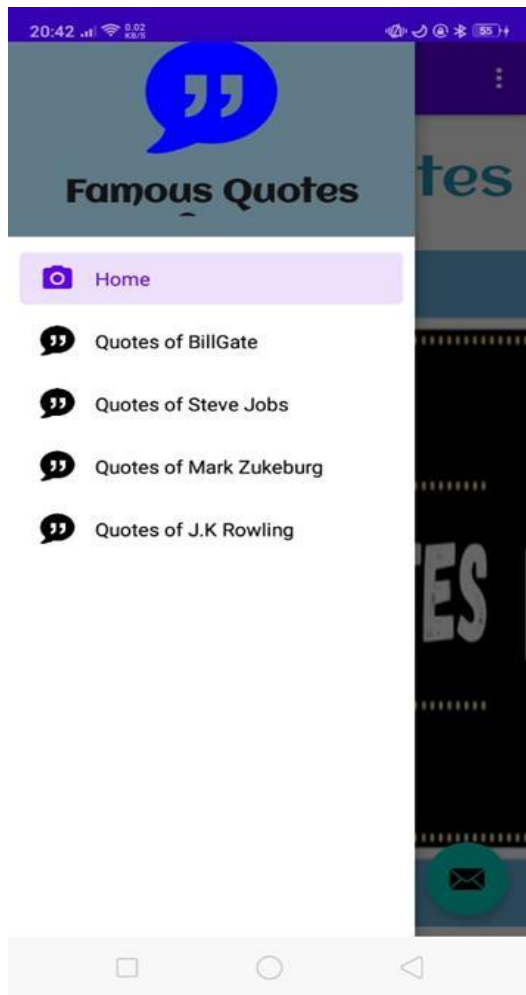
### **Source Code:**



```
32 binding.appBarMain.fab.setOnClickListener(new View.OnClickListener() {
33     @Override
34     public void onClick(View view) {
35         Snackbar.make(view, "Replace with your own action", Snackbar.LENGTH_LONG)
36             .setAction("Action", null).show();
37     }
38 });
39 DrawerLayout drawer = binding.drawerLayout;
40 NavigationView navigationView = binding.navView;
41 // Passing each menu ID as a set of IDs because each
42 // menu should be considered as top level destinations.
43 mAppBarConfiguration = new AppBarConfiguration.Builder(
44     R.id.nav_home, R.id.nav_gallery, R.id.nav_slideshow, R.id.nav_markzok, R.id.nav_rowling)
45     .setOpenableLayout(drawer)
46     .build();
47 NavController navController = Navigation.findNavController( activity, this, R.id.nav_host_fragment_content_main);
48 NavigationUI.setupActionBarWithNavController( activity, this, navController, mAppBarConfiguration);
49 NavigationUI.setupWithNavController(navigationView, navController);
50 }
51
52 @Override
53 public boolean onCreateOptionsMenu(Menu menu) {
54     // Inflate the menu; this adds items to the action bar if it is present.
55     getMenuInflater().inflate(R.menu.main, menu);
56     return true;
57 }
58 }
```

Project update recommended  
Android Gradle Plugin can be upgraded.

**Output:**



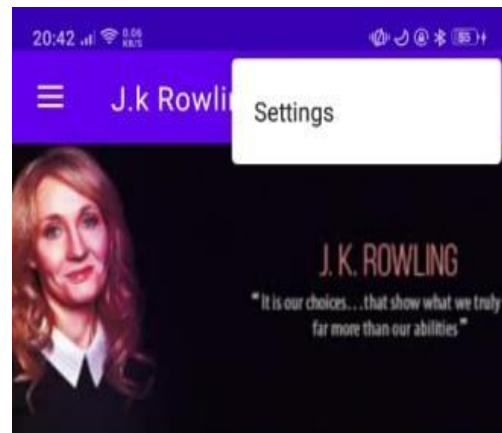




## Bill Gates Quotes

***"Don't compare yourself with anyone in this world... if you do so, you are insulting yourself."***

SHARE QUOTE



## J.k Rowling Quotes

***"October extinguished itself in a rush of howling winds and driving rain and November arrived, cold as frozen iron, with hard frosts every morning and icy drafts that bit at exposed hands and faces."***

SHARE QUOTE



## Week-13

### **TASK 15:**

Create a SQLite based simple CURD(Create Update Read Delete) App.  
Create a SQLite based CRUD app that shows a simple form to the user  
and then saves the user data in a Database.

### **Output:**

The image displays two screenshots of a mobile application titled "Student Registration".

**Left Screenshot (Main Form):**

- Header: "Week 7" (green bar).
- Title: "Student Registration" (centered).
- Form Fields:
  - "Enter Name" (text input)
  - "Roll No" (text input)
  - "Department" (text input)
- Action Buttons (bottom):
  - INSERT (green button)
  - VIEW (green button)
  - UPDATE (green button)
  - DELETE (green button)

**Right Screenshot (Modal View):**

- Header: "Week 7" (green bar).
- Title: "Student Registration" (centered).
- Modal Dialog Box (centered):
  - Title: "Student Details"
  - Fields:
    - Student Name
    - Roll Number
    - Department
  - CLOSE (green button)
- Action Buttons (bottom):
  - INSERT (green button)
  - VIEW (green button)
  - UPDATE (green button)
  - DELETE (green button)





### **TASK 16:**

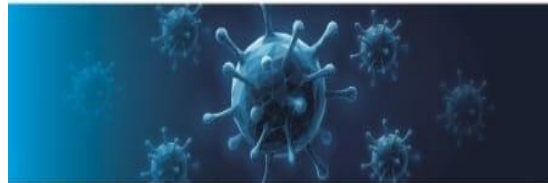
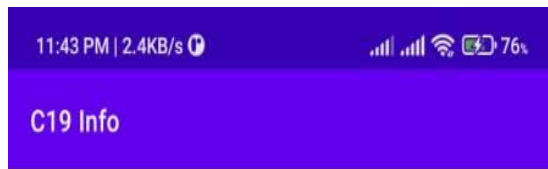
Create a full Android App for “COVID-19 Student Registration App for University “ Create an App for student to register their information about covid vaccination. Use the following GUI. Save the Data in the SQLite Database and display it to the user once successfully saved.

### **Source Code:**

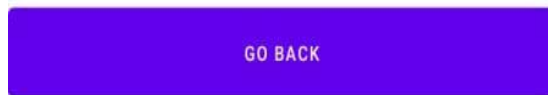
```
MainActivity.java
2
3 import ...
10 public class MainActivity extends AppCompatActivity {
11
12     ImageView studentBtn;
13     ImageView teacherBtn;
14
15     @Override
16     protected void onCreate(Bundle savedInstanceState) {
17         super.onCreate(savedInstanceState);
18         setContentView(R.layout.activity_main);
19         studentBtn = findViewById(R.id.studentBtn);
20         teacherBtn = findViewById(R.id.teacherBtn);
21         studentBtn.setOnClickListener(new View.OnClickListener() {
22             @Override
23             public void onClick(View view) { studentActivity(); }
24         });
25         teacherBtn.setOnClickListener(new View.OnClickListener() {
26             @Override
27             public void onClick(View view) { teacherActivity(); }
28         });
29     }
30 }
```

```
MainActivity.java
2
3     @Override
4     public void onClick(View view) { studentActivity(); }
5
6
7     teacherBtn.setOnClickListener(new View.OnClickListener() {
8         @Override
9         public void onClick(View view) { teacherActivity(); }
10     });
11
12 }
13
14 public void studentActivity() {
15     Intent intent = new Intent( packageContext: this, Student_Activity.class);
16     startActivity(intent);
17 }
18
19 public void teacherActivity() {
20     Intent intent = new Intent( packageContext: this, Teacher_Activity.class);
21     startActivity(intent);
22 }
23
24 }
```

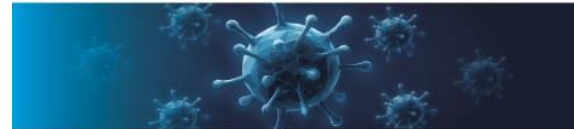
**Output:**



Your data is submitted  
Thank You!



Covid 19 Submission



Student



Teacher

**The End**

Syed Mubashir Ali (2k20/ITE/73)