# Bahria University,

## Karachi Campus



LAB EXPERIMENT NO.

**\_05\_**

LIST OF TASKS

|  |  |
| --- | --- |
| **TASK NO** | **OBJECTIVE** |
| 01 | Simple Registration Form  Create a simple registration form using the following UI controls:   * EditText for entering the user's name, email, and password. * RadioGroup with RadioButton for selecting the user's gender. * CheckBox for accepting the terms and conditions. * Button for submitting the form.   When the user clicks the submit button, validate the input fields and display a Toast message or an AlertDialog indicating whether the registration was successful or if any fields were left empty or invalid. |
| 02 | Taking Composite choice from the user using checkbox |
| 03 |  |

Submitted On:

Date: 04/04/2024

**Task No 01:** Simple Registration Form

Create a simple registration form using the following UI controls:

* EditText for entering the user's name, email, and password.
* RadioGroup with RadioButton for selecting the user's gender.
* CheckBox for accepting the terms and conditions.
* Button for submitting the form.

When the user clicks the submit button, validate the input fields and display a Toast message or an AlertDialog indicating whether the registration was successful or if any fields were left empty or invalid.

**Solution:**

package com.example.assignment1;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.CheckBox;  
import android.widget.EditText;  
import android.widget.RadioButton;  
import android.widget.RadioGroup;  
import android.widget.Toast;  
import androidx.appcompat.app.AlertDialog;  
import androidx.appcompat.app.AppCompatActivity;  
public class RegistrationActivity extends AppCompatActivity {  
 private EditText editTextName, editTextEmail, editTextPassword;  
 private RadioGroup radioGroupGender;  
 private CheckBox checkBoxTerms;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_registration);  
 editTextName = findViewById(R.id.editTextName);  
 editTextEmail = findViewById(R.id.editTextEmail);  
 editTextPassword = findViewById(R.id.editTextPassword);  
 radioGroupGender = findViewById(R.id.radioGroupGender);  
 checkBoxTerms = findViewById(R.id.checkBoxTerms);  
 Button buttonSubmit = findViewById(R.id.buttonSubmit);  
 buttonSubmit.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 if (validateInput()) {   
 showToast("Registration Successful");  
 } else {   
 showAlertDialog("Invalid Input", "Please fill all the fields and accept terms and conditions.");  
 }}});}  
 private boolean validateInput() {  
 String name = editTextName.getText().toString().trim();  
 String email = editTextEmail.getText().toString().trim();  
 String password = editTextPassword.getText().toString().trim();  
 if (name.isEmpty() || email.isEmpty() || password.isEmpty()) {  
 return false; }  
 if (!checkBoxTerms.isChecked()) {  
 return false;}  
 return true;}  
 private void showToast(String message) {  
 Toast.*makeText*(this, message, Toast.*LENGTH\_SHORT*).show();}  
 private void showAlertDialog(String title, String message) {  
 AlertDialog.Builder builder = new AlertDialog.Builder(this);  
 builder.setTitle(title)  
 .setMessage(message)  
 .setPositiveButton("OK", null)  
 .show();}}

**Output:**

**A screenshot of a cell phone

Description automatically generatedA screenshot of a phone

Description automatically generated**

**Task No 02:**

**Solution:**

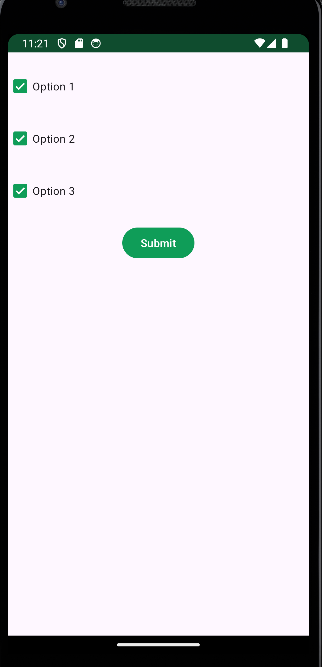
**Output:**

**Task No 02:** Taking Composite choice from the user using checkbox

**Solution:**

package com.example.assignment1;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.CheckBox;  
import android.widget.Toast;  
import androidx.appcompat.app.AppCompatActivity;  
public class MainActivity extends AppCompatActivity {  
 private CheckBox checkboxOption1, checkboxOption2, checkboxOption3;  
 private Button buttonSubmit;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 checkboxOption1 = findViewById(R.id.*checkbox\_option1*);  
 checkboxOption2 = findViewById(R.id.*checkbox\_option2*);  
 checkboxOption3 = findViewById(R.id.*checkbox\_option3*);  
 buttonSubmit = findViewById(R.id.*button\_submit*);  
 buttonSubmit.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 submitForm();}});}  
 private void submitForm() {  
 StringBuilder choices = new StringBuilder("Selected Options:");  
 if (checkboxOption1.isChecked()) {  
 choices.append("\nOption 1");}  
 if (checkboxOption2.isChecked()) {  
 choices.append("\nOption 2");}  
 if (checkboxOption3.isChecked()) {  
 choices.append("\nOption 3");}  
 Toast.*makeText*(MainActivity.this, choices.toString(), Toast.*LENGTH\_SHORT*).show();}}

**Output:**

****