Experiment 9

Develop an android application to store the details of an employee and further display the details in another activity using shared preference objects.

ActivityOne.kt

```kotlin
1.  package com.example.sharepreferenceapp
2.
3.  import android.content.Intent
4.  import android.content.SharedPreferences
5.  import androidx.appcompat.app.AppCompatActivity
6.  import android.os.Bundle
7.  import android.util.Log
8.  import android.view.View
9.  import android.widget.RadioButton
10. import android.widget.Toast
11. import kotlinx.android.synthetic.main.activity_main.*
12.
13. class MainActivity : AppCompatActivity() {
14.
15.     private lateinit var sharedprefObj: SharedPreferences
16.     private lateinit var foodPref:String
17.     private lateinit var foodPlan:String
18.     private var foodPlan_cost:Float = 1.0f
19.     private var foodPf_cost:Float = 1.0f
20.
21.     override fun onCreate(savedInstanceState: Bundle?) {
22.         super.onCreate(savedInstanceState)
23.         setContentView(R.layout.activity_main)
24.         foodPref = ""
25.         foodPlan = ""
26.         sharedprefObj = getSharedPreferences("empPrefObj", MODE_PRIVATE)
27.         val empPrefObj_editor = sharedprefObj.edit() //alow us to edit/insert
    data(key->value) in sharedPrefObj
28.
29.         btn_submit.setOnClickListener {
30.
31.             val id_str = empID.text.toString()
32.             val name_str = empName.text.toString()
33.             val email_str = empEmail.text.toString()
34.             val dpt_str=empDpt.text.toString()
35.
36.             if(id_str.isNotEmpty()  && name_str.isNotEmpty()  && email_str.isN
    otEmpty()  && dpt_str.isNotEmpty())
37.             //inserting data using editor obj
38.             {
39.                 empPrefObj_editor.apply() {
40.                     //key -> value pair
41.                     putString("emp_ID", id_str)
42.                     putString("emp_name", name_str)
43.                     putString("emp_email", email_str)
44.                     putString("emp_dpt", dpt_str)
```

Experiment 9

Develop an android application to store the details of an employee and further display the details in another activity using shared preference objects.

```kotlin
45.                    putString("emp_food_pref", foodPref)
46.                    putString("emp_food_plan", foodPlan)
47.                    putFloat("emp_food_plan_cost", foodPlan_cost)
48.                    apply() //this will add all key value pair(asynchronous) :
       preffered over commit() (synchronous)
49.                  }
50.              //form submitted successfully!
51.
52.              Toast.makeText(applicationContext,"Form submitted successfully
      !",Toast.LENGTH_SHORT).show()
53.          }else{
54.              Toast.makeText(applicationContext,"Empty Form was submitted!",
      Toast.LENGTH_SHORT).show()
55.          }
56.
57.      }
58.
59.      btn_savedPref.setOnClickListener {
60.          Intent(this,EmployeeFoodPreference::class.java).also{
61.              startActivity(it)
62.          }
63.      }
64.      btn_loadPref.setOnClickListener {
65.          empID.setText(sharedprefObj.getString("emp_ID", null))
66.          empName.setText(sharedprefObj.getString("emp_name", null))
67.          empEmail.setText(sharedprefObj.getString("emp_email", null))
68.          empDpt.setText(sharedprefObj.getString("emp_dpt", null))
69.      }
70.      Log.d("foodCost",foodPlan_cost.toString())
71.  }
72.
73.  private fun totalFoodCost(foodPf_cost: Float, foodPl_cost:Float) :Float{
74.      return foodPf_cost * foodPl_cost
75.  }
76.  fun onRadioButtonClicked(view: View) {
77.      if (view is RadioButton) {
78.          // Is the button now checked?
79.          val checked = view.isChecked
80.
81.          // Check which radio button was clicked
82.          when (view.getId()) {
83.              R.id.vegFood ->
84.                  if (checked) {
85.                      foodPref = "Veg Food"
86.                      foodPf_cost = 1.0f
87.                  }
88.              R.id.nonVegFood ->
89.                  if (checked) {
90.                      foodPref = "Non-Veg Food"
```

Experiment 9

Develop an android application to store the details of an employee and further display the details in another activity using shared preference objects.

```
91.                          foodPf_cost = 1.5f
92.                      }
93.              R.id.montlyPlan ->
94.                  if (checked) {
95.                      foodPlan = "Monthly Plan"
96.                      foodPlan_cost = totalFoodCost(foodPf_cost,1000.0f)
97.                      "%.5f".format(foodPlan_cost)
98.                  }
99.              R.id.anualPlan ->
100.                     if (checked) {
101.                         foodPlan = "Annual Plan"
102.                         foodPlan_cost = totalFoodCost(foodPf_cost,8000.0
   f)
103.                         "%.5f".format(foodPlan_cost)
104.                     }
105.
106.                 }
107.             }
108.         }
109.     }
```

ActivityTwo.kt

```
1. package com.example.sharepreferenceapp
2.
3. import androidx.appcompat.app.AppCompatActivity
4. import android.os.Bundle
5. import kotlinx.android.synthetic.main.activity_employee_food_preference.*
6.
7. class EmployeeFoodPreference : AppCompatActivity() {
8.     override fun onCreate(savedInstanceState: Bundle?) {
9.         super.onCreate(savedInstanceState)
10.        setContentView(R.layout.activity_employee_food_preference)
11.
12.        val sharedPrefObjCopy = applicationContext.getSharedPreferences("empPr
   efObj", MODE_PRIVATE)
13.        tv_empID.text = sharedPrefObjCopy.getString("emp_ID",null)
14.        tv_empFoodCost.text = "Rs."+sharedPrefObjCopy.getFloat("emp_food_plan_
   cost", 0.0f).toString()
15.        tv_empName.text = sharedPrefObjCopy.getString("emp_name",null)
16.        tv_empFoodPlan.text = sharedPrefObjCopy.getString("emp_food_plan",null
   )
17.        tv_empFoodPref.text = sharedPrefObjCopy.getString("emp_food_pref",null
   )
18.        tv_empEmail.text = sharedPrefObjCopy.getString("emp_email",null)
19.        tv_empDpt.text = sharedPrefObjCopy.getString("emp_dpt",null)
20.    }
21. }
```

Experiment 9

Develop an android application to store the details of an employee and further display the details in another activity using shared preference objects.

Snapshot: