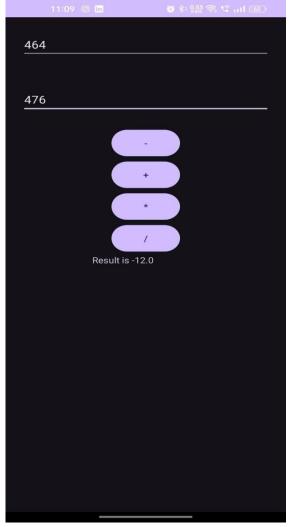
Practical :- 2

## Aim: - Design a Calculator using kotlin in Android Studio.

```
activity_main.xml
                          @ MainActivity.kt ×
       package com.example.bascalculator
       import androidx.appcompat.app.AppCompatActivity
       import android.os.Bundle
       import android.view.View
       import android.widget.Button
       import android.widget.EditText
 6
 7
       import android.widget.TextView
       @Suppress( ...names: "UNREACHABLE_CODE")
       class MainActivity : AppCompatActivity(), View.OnClickListener {
10
           ı
            lateinit var btnadd: Button
           lateinit var btnsub: Button
           lateinit var btnmul: Button
           lateinit var btndiv: Button
            lateinit var eta: EditText
            lateinit var etb: EditText
            lateinit var rv: TextView
18 ●↑
            override fun onCreate(savedInstanceState: Bundle?) {
19
                super.onCreate(savedInstanceState)
                setContentView(R.layout.activity_main)
                btnadd = findViewById(R.id.btnadd)
                btnsub = findViewById(R.id.btnsub)
                btnmul = findViewById(R.id.btnmul)
                btndiv = findViewById(R.id.btndiv)
                eta = findViewById(R.id.eta)
                etb = findViewById(R.id.etb)
                rv= findViewById(R.id.rv)
                btnadd.setOnClickListener(this)
31
                btnsub.setOnClickListener(this)
                btnmul.setOnClickListener(this)
                btndiv.setOnClickListener(this)
35
            override fun onClick(v: View?) {
36
                 TODO( reason: "Not yet implemented")
                 var a : Double = eta.text.toString().toDouble()
                 var b : Double = etb.text.toString().toDouble()
39
                var result = 0.0
40
                when(v?.<u>id</u>){
41
                     R.id.btnadd ->{
                         result = a + b }
                     R.id.btnsub ->{
                         result = a - b
45
                     R.id.<u>btnmul</u>->{
                         \underline{\mathsf{result}} = \underline{\mathsf{a}} * \underline{\mathsf{b}} \; \}
47
                     R.id.<u>btndiv</u> ->{
48
                         <u>result</u> = <u>a</u> / <u>b</u> }
                rv.text = "Result is $result"
```

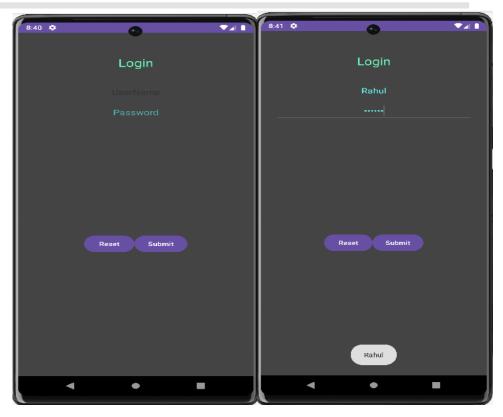




Practical :- 3

## Aim :- Design Login Form using Toast.

```
package com.example.loginpage1
                                                                                 OFF
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.widget.Button
import android.widget.EditText
import android.widget.Toast
class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        var et_user_name = findViewById(R.id.et_username) as EditText
        var et_passeord = findViewById(R.id.et_password) as EditText
        var btn_reset = findViewById(R.id.btn_reset) as Button
        var btn_submit = findViewById(R.id.btn_submit) as Button
        btn_reset.setOnClickListener{ it: View!
            et_user_name.setText("")
            et_passeord.setText("")
        btn_submit.setOnClickListener { it: View!
            val user_name = et_user_name.text;
            val password = et_passeord.text;
            Toast.makeText( context: this@MainActivity, user_name, Toast.LENGTH_LONG).
```



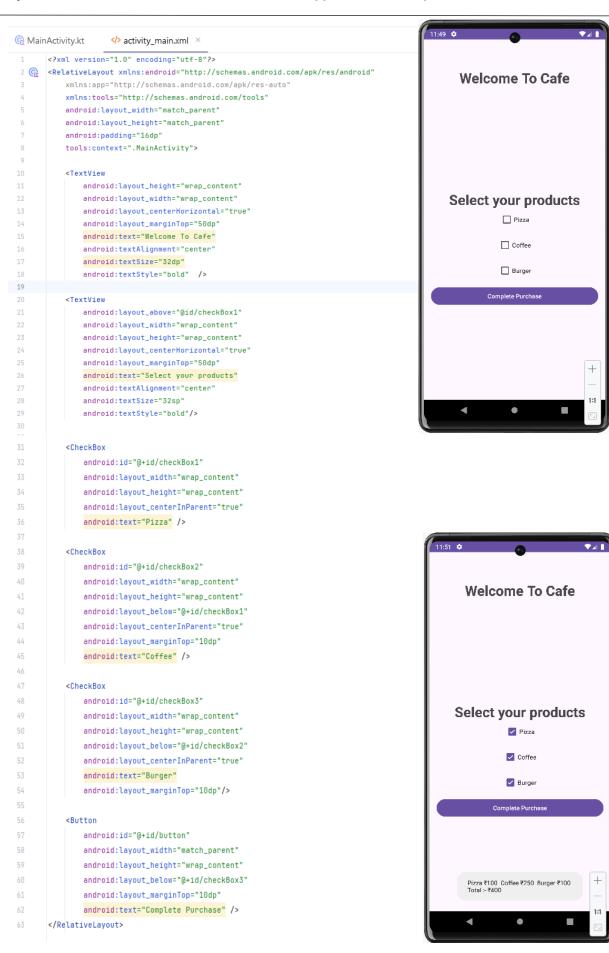


Practical:-4

## Aim :- Design a Menu for a café and print its Invoice.

```
    MainActivity.kt 
    ✓ activity_main.xml

        package com.example.myapplication
       import androidx.appcompat.app.AppCompatActivity
 4
       import android.os.Bundle
       import android.widget.Button
       import android.widget.CheckBox
 6
       import android.widget.Toast
 8
        import kotlin.text.StringBuilder
10 </>
       class MainActivity : AppCompatActivity() {
            lateinit var pizza: CheckBox
13
            lateinit var coffee: CheckBox
14
            lateinit var burger: CheckBox
15
            lateinit var button: Button
17 of
            override fun onCreate(savedInstanceState: Bundle?) {
               super.onCreate(savedInstanceState)
18
                setContentView(R.layout.activity_main)
              pizza = findViewById(R.id.checkBox1)
              coffee = findViewById(R.id.checkBox2)
               burger = findViewById(R.id.checkBox3)
               button = findViewById(R.id.button)
24
               button.setOnClickListener { it View!
                  var totalAmount:Int = 0
28
                  var result = StringBuilder()
29
                  if(pizza.isChecked){
                      result.append("Pizza ₹100 ")
                      totalAmount+=100
                   if(coffee.isChecked){
34
                     result.append("Coffee ₹250 ")
                      totalAmount+=250
                   if(burger.isChecked){
                      result.append("Burger ₹100\n")
                      totalAmount+=50
40
                  result.append("Total :- ₹" + totalAmount)
41
                   Toast.makeText(applicationContext, result.toString(), Toast.LENGTH_SHORT).show()
43
44
45
```



A/31

Practical:-7

Aim: - Starting Camera Module and taking Picture.

```
activity_main.xml
                     package com.example.camera_module
       import android.content.Intent
       import android.graphics.Bitmap
       import androidx.appcompat.app.AppCompatActivity
       import android.os.Bundle
       import android.provider.MediaStore
       import android.view.View
       import android.widget.Button
       import android.widget.ImageView
      class MainActivity : AppCompatActivity() {
           private lateinit var cameraOpenId: Button
           lateinit var clickImageId: ImageView
           override fun onCreate(savedInstanceState: Bundle?) {
               super.onCreate(savedInstanceState)
               setContentView(R.layout.activity_main)
               cameraOpenId = findViewById(R.id.camera_button)
               clickImageId = findViewById(R.id.click_image)
               cameraOpenId.setOnClickListener(View.OnClickListener { v: View? ->
                   val cameraIntent = Intent(MediaStore.ACTION_IMAGE_CAPTURE)
                   startActivityForResult(cameraIntent, pic_id)
               })
          override fun onActivityResult(requestCode: Int, resultCode: Int, data: Intent?) {
             super.onActivityResult(requestCode, resultCode, data)
             if (requestCode == pic_id) {
                 val photo = data!!.extras!!["data"] as Bitmap?
                 clickImageId.setImageBitmap(photo)
          companion object{
             private const val pic_id = 123
      H
```



android:layout\_height="450dp"
android:layout\_marginTop="70dp"
android:layout\_marginStart="30dp"
android:layout\_marginBottom="10dp"/>

</RelativeLayout>

