
1. Develop an android application which accepts the SGPA of all the six semesters and displays your CGPA.

```
package com.example.gan;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    EditText e1,e2,e3,e4,e5,e6,e7,e8;
    Button b1;
    TextView t1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        e1=(EditText) findViewById(R.id.editTextNumber);
        e2=(EditText) findViewById(R.id.editTextNumber);
        e3=(EditText) findViewById(R.id.editTextNumber);
        e4=(EditText) findViewById(R.id.editTextNumber);
        e5=(EditText) findViewById(R.id.editTextNumber);
        e6=(EditText) findViewById(R.id.editTextNumber);
        e7=(EditText) findViewById(R.id.editTextNumber);
        e8=(EditText) findViewById(R.id.editTextNumber);
        b1=(Button) findViewById(R.id.button);
        t1=(TextView) findViewById(R.id.textView4);

        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String n1,n2,n3,n4,n5,n6,n7,n8;
                n1=e1.getText().toString();
                n2=e2.getText().toString();
                n3=e3.getText().toString();
                n4=e4.getText().toString();
                n5=e5.getText().toString();
                n6=e6.getText().toString();
                n7=e7.getText().toString();
                n8=e8.getText().toString();
                float
                cgpa=(Float.parseFloat(n1)+Float.parseFloat(n2)+Float.parseFloat(n3)+Float.parseFloat(n4)+Float.parseFloat(n5)+Float.parseFloat(n6)+Float.parseFloat(n7)+Float.parseFloat(n8))/8;
                t1.setText(String.valueOf(cgpa));
            }
        });
    }
}
```

OUTPUT:



2.Design an app that displays the names of all planets in our universe. Clicking on “Solar System” in first activity should display all the planet’s names in second activity and it should return the total number of planets to first activity.

```
package com.example.gan2;

import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    Button b1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
```

```

        b1=(Button) findViewById(R.id.button);
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent conn = new
Intent(getApplicationContext(),MainActivity2.class);
                startActivity(conn);
                startActivityForResult(conn,1);
            }
        });
    }

    @Override
    protected void onActivityResult(int requestCode, int resultCode,
@Nullable Intent data) {
        super.onActivityResult(requestCode, resultCode, data);
        TextView t1=(TextView) findViewById(R.id.textView);
        if (requestCode==1)
            if (resultCode==RESULT_OK){
                String res = data.getStringExtra("Planets");

//Toast.makeText(getApplicationContext(),String.valueOf(res),Toast.LENGTH
_SHORT).show();
                t1.setText(String.valueOf(res));
            }
        }
    }
}

```

```

package com.example.gan3;

import androidx.appcompat.app.AppCompatActivity;

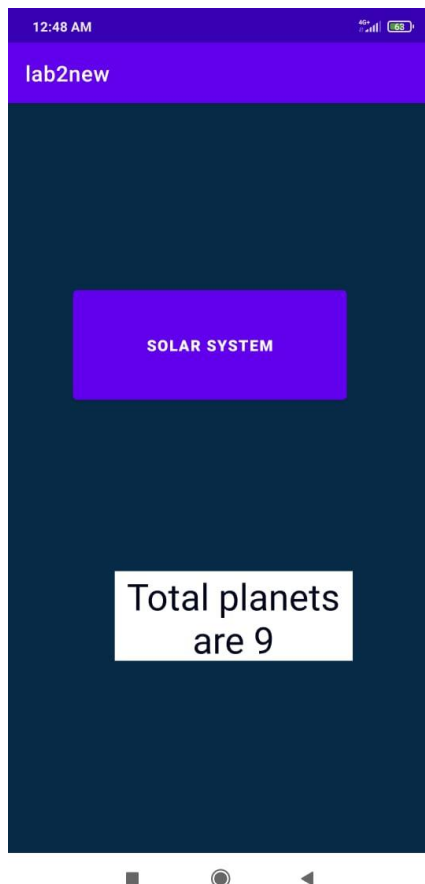
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

public class MainActivity2 extends AppCompatActivity {
    Button b2;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        int total=8;
        b2=(Button) findViewById(R.id.button2);
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent in=getIntent();
                in.putExtra("Planets",Integer.toString(total));
                setResult(RESULT_OK,in);
            }
        });
    }
}

```

```
        finish();
    }
}
});
```

OUTPUT:



3. Develop an android application to login into a system which is redirected to the Home screen. The login should be successful on

Email: admin@example.com

Password: admin123.

If the email/password is invalid display a Toast with an error message.

```
packacom.example.ll.gan4;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        EditText e1=(EditText) findViewById(R.id.editTextTextPersonName);
        EditText e2=(EditText) findViewById(R.id.editTextTextPersonName2);
        EditText e3=(EditText) findViewById(R.id.editTextTextPersonName3);
        Button b1=(Button) findViewById(R.id.button);

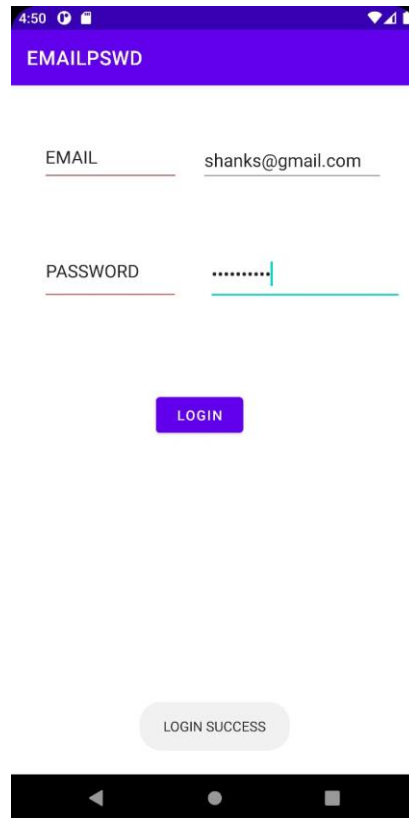
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String str=e1.getText().toString();
                String[] addr=str.split(",");

                String sub =e2.getText().toString();
                String msg=e3.getText().toString();

                Intent email= new Intent(Intent.ACTION_SEND);
                email.putExtra(Intent.EXTRA_EMAIL,addr);
                email.putExtra(Intent.EXTRA_SUBJECT,sub);
                email.putExtra(Intent.EXTRA_TEXT,msg);

                email.setType("message/rfc222");
                startActivity(Intent.createChooser(email,"sending Message"));
            }
        });
    }
}
```

OUTPUT:



4. Develop a QUIZ app that displays a question with four answers as options. Clicking an option should display whether the selected option is right or wrong.

```
package com.example.gan5;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.ScaleGestureDetector;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.RadioButton;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    RadioButton rb1,rb2,rb3,rb4,rb5,rb6;
    ImageView img,img1;
    int cnt;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        rb1=(RadioButton) findViewById(R.id.radioButton);
        rb2=(RadioButton) findViewById(R.id.radioButton2);
        rb3=(RadioButton) findViewById(R.id.radioButton3);
```

```
rb4=(RadioButton) findViewById(R.id.radioButton4);
rb5=(RadioButton) findViewById(R.id.radioButton5);
rb6=(RadioButton) findViewById(R.id.radioButton6);
img=(ImageView) findViewById(R.id.imageView);
img1=(ImageView) findViewById(R.id.imageView2);
rb1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        img.setVisibility(View.VISIBLE);
        img.setImageResource(R.drawable.wrong);
    }
});
rb2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        img.setVisibility(View.VISIBLE);
        img.setImageResource(R.drawable.wrong);
    }
});
rb3.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        img.setVisibility(View.VISIBLE);
        img.setImageResource(R.drawable.right);
        cnt=cnt+1;
    }
});
rb4.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        img1.setVisibility(View.VISIBLE);
        img1.setImageResource(R.drawable.wrong);
    }
});
rb5.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        img1.setVisibility(View.VISIBLE);
        img1.setImageResource(R.drawable.right);
        cnt=cnt+1;
    }
});
rb6.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        img1.setVisibility(View.VISIBLE);
        img1.setImageResource(R.drawable.wrong);
    }
});
Button b1=(Button) findViewById(R.id.button2);
b1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Toast.makeText(getApplicationContext(),
            String.valueOf(cnt),Toast.LENGTH_LONG).show();
    }
});
```

```

    }
}
}

```

OUTPUT:



What is the Full Form of MCE

- ☐ Mysore College of Engineering
- ☒ Mandya College of Engineering
- ☐ Malnad College of Engineering

How is your experience at MCE ?

- ☐ Wonderful
- ☐ Good
- ☐ Satisfactory



What is the Full Form of MCE

- ☐ Mysore College of Engineering
- ☐ Mandya College of Engineering
- ☒ Malnad College of Engineering

How is your experience at MCE ?

- ☐ Wonderful
- ☐ Good
- ☐ Satisfactory



5.Assume you need accept order online for fast food items. Design an app such that it accepts the order for multiple items and displays the total amount to be paid on placing the order.

```

package com.example.gan6;

import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;

```

```

import android.content.DialogInterface;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    CheckBox cb1,cb2,cb3,cb4;
    Button b1,b2;
    TextView t1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        b1=(Button) findViewById(R.id.button);
        b2=(Button) findViewById(R.id.button2);
        cb1=(CheckBox) findViewById(R.id.checkBox);
        cb2=(CheckBox) findViewById(R.id.checkBox2);
        cb3=(CheckBox) findViewById(R.id.checkBox3);
        cb4=(CheckBox) findViewById(R.id.checkBox4);
        t1=(TextView) findViewById(R.id.textView);
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                int total = 0;
                if (cb1.isChecked())
                    total = total + 120;
                if (cb2.isChecked())
                    total = total + 200;
                if (cb3.isChecked())
                    total = total + 150;
                if (cb4.isChecked())
                    total = total + 300;
                t1.setText("Total : " + String.valueOf(total));
            }
        });

        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                AlertDialog.Builder alert = new
AlertDialog.Builder(MainActivity.this);
                alert.setCancelable(true);
                alert.setTitle("Alert Message");
                alert.setMessage("Payment to be done");

                alert.setPositiveButton("OK", new
DialogInterface.OnClickListener() {
                    @Override
                    public void onClick(DialogInterface
dialogInterface, int i) {
                        Toast.makeText(getApplicationContext(),
"Continue Payment", Toast.LENGTH_LONG).show();
                    }
                });
            }
        });
    }
}

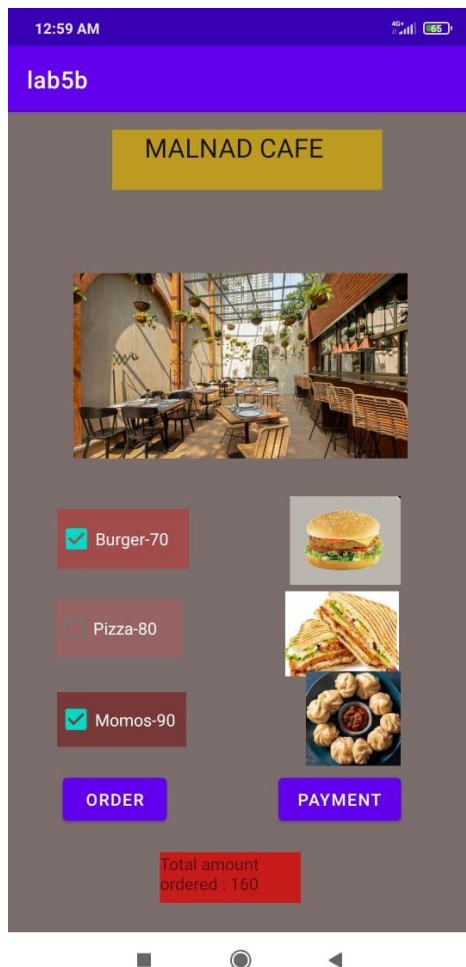
```

```

        });
        alert.setNegativeButton("Cancle", new
DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface
dialogInterface, int i) {
                dialogInterface.cancel();
                Toast.makeText(getApplicationContext(),
"Continue Payment", Toast.LENGTH_LONG).show();
            }
        });
        alert.show();
    }
});
}
}

```

OUTPUT:



6. Design an app to display menu options on clicking a button “FILE”. The menu options are: New, Open, Save, Save as, And Print. Clicking on any option should display the relevant information.

```
package com.example.gan7;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

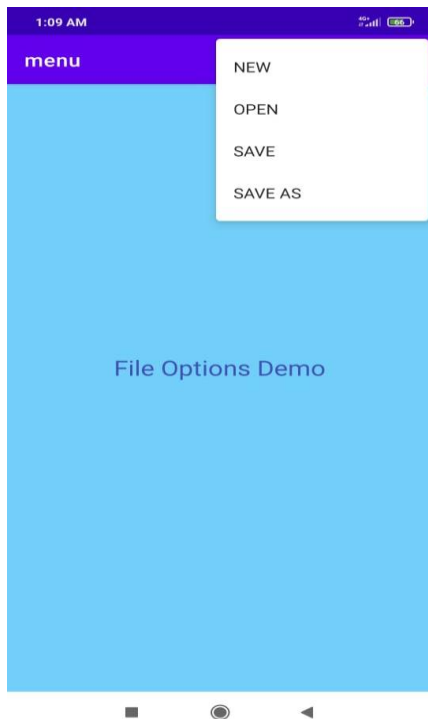
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        getSupportActionBar().setTitle("LOHI FILE");
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        super.onCreateOptionsMenu(menu);
        menu.add(0,0,0,"NEW");
        menu.add(0,1,1,"OPEN");
        menu.add(0,2,2,"SAVE");
        menu.add(0,3,3,"SAVE AS");
        menu.add(0,3,3,"PRINT");
        return true;
    }

    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        super.onOptionsItemSelected(item);
        switch (item.getItemId())
        {
            case 0: Toast.makeText(getApplicationContext(),"Opens a New
File",Toast.LENGTH_LONG).show();
                return true;
            case 1: Toast.makeText(getApplicationContext(),"Opens the
existing file",Toast.LENGTH_LONG).show();
                return true;
            case 2: Toast.makeText(getApplicationContext(),"saves as a
existing file",Toast.LENGTH_LONG).show();
                return true;
            case 3: Toast.makeText(getApplicationContext(),"Saves with the
name",Toast.LENGTH_LONG).show();
                return true;
            case 4: Toast.makeText(getApplicationContext(),"Prints the
existing file",Toast.LENGTH_LONG).show();
                return true;
        }
    }
}
```

```
    }  
    return false;  
}  
}
```

OUTPUT:



7.Design an app to accept your name, roll number and branch programmatically.

```
package com.example.gan8;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.LinearLayout;  
import android.widget.TextView;  
  
public class MainActivity extends AppCompatActivity {  
  
    @Override
```

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    EditText e1=new EditText(this);
    e1.setText("Name:");
    e1.setTextSize(20);

    EditText e2=new EditText(this);
    e2.setText("USN");
    e2.setTextSize(20);

    EditText e3=new EditText(this);
    e3.setText("Branch");
    e3.setTextSize(20);

    Button b1=new Button(this);
    b1.setText("Submit");
    b1.setTextSize(20);

    TextView t1=new TextView(this);
    t1.setText("Name:");
    t1.setTextSize(20);

    TextView t2=new TextView(this);
    t2.setText("USN");
    t2.setTextSize(20);

    TextView t3=new TextView(this);
    t3.setText("Branch");
    t3.setTextSize(20);

    LinearLayout layout=new LinearLayout(this);
    layout.setOrientation(LinearLayout.VERTICAL);

    layout.addView(e1);
    layout.addView(e2);
    layout.addView(e3);
    layout.addView(b1);
    layout.addView(t1);
    layout.addView(t2);
    layout.addView(t3);

    LinearLayout.LayoutParams params=new
    LinearLayout.LayoutParams(LinearLayout.LayoutParams.MATCH_PARENT,LinearLa
    yout.LayoutParams.WRAP_CONTENT);
    this.addView(layout,params);

    b1.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            String str=e1.getText().toString();
            t1.setText(str);
        }
    });
}
```

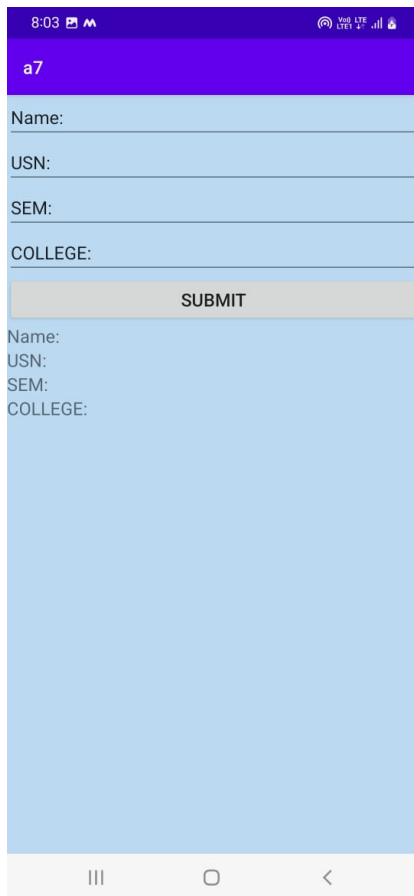
```

        String str1=e2.getText().toString();
        t2.setText(str1);

        String str2=e3.getText().toString();
        t3.setText(str2);
    }
}
}

```

OUTPUT:



8. Develop an android application to list all the engineering branches of MCE and displays a brief information of any department which the user clicks on in a separate page.

```
packagecom.example.gan8;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Spinner;

public class MainActivity extends AppCompatActivity {
String[] str={"select Branch","CSE","ME","ISE","EC","IP"};
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Spinner sp=(Spinner) findViewById(R.id.spinner);
        ArrayAdapter<String> adp=new ArrayAdapter<>(getApplicationContext(),
android.R.layout.simple_dropdown_item_1line,str);
        sp.setAdapter(adp);
        sp.setOnItemClickListener(new AdapterView.OnItemClickListener()
{
            @Override
            public void onItemClick(AdapterView<?> adapterView, View, int
i, long l) {
                int index=adapterView.getSelectedItemPosition();
                if(index==1) {
                    Intent in1=new Intent(getApplicationContext(),
MainActivity2.class);
                    startActivity(in1);
                }
                {
                    if (index==2) {
                        Intent ME=new
Intent(getApplicationContext(),MainActivity3.class);
                        startActivity(ME);
                    }
                    if (index==3){
                        Intent ISE=new
Intent(getApplicationContext(),MainActivity4.class);
                        startActivity(ISE);
                    }
                    if(index==4){
                        Intent EC=new
Intent(getApplicationContext(),MainActivity5.class);
                        startActivity(EC);
                    }
                    if (index==5){
                        Intent IP=new
Intent(getApplicationContext(),MainActivity6.class);
                        startActivity(IP);
                    }
                }
            }
        }

        @Override
        public void onNothingSelected(AdapterView<?> adapterView) {

```

```

        }
    });
}

package com.example.lohilab14;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

public class MainActivity2 extends AppCompatActivity {
    Button b1;
    TextView t1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        Button b1=(Button) findViewById(R.id.button);
        TextView t1=(TextView) findViewById(R.id.textView);
        t1.setText("CSE is established in 1983");
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                finish();
            }
        });
    }
}

```

```

package com.example.gan9;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

public class MainActivity3 extends AppCompatActivity {
    Button b2;
    TextView t2;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main3);
        Button b2=(Button) findViewById(R.id.button2);
        TextView t2=(TextView) findViewById(R.id.textView2);
        t2.setText("ME Branch was established in 1885 ");
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {

```

```

        finish();
    }
    });
}
}

package com.example.gan10;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

public class MainActivity4 extends AppCompatActivity {
    Button b3;
    TextView t3;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main4);
        Button b3=(Button) findViewById(R.id.button3);
        TextView t3=(TextView) findViewById(R.id.textView3);
        t3.setText("ISE Branch was established in 2001");
        b3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                finish();
            }
        });
    }
}

```

```

package com.example.gan10;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

public class MainActivity5 extends AppCompatActivity {
    Button b4;
    TextView t4;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main5);
        Button b4=(Button) findViewById(R.id.button4);
        TextView t4=(TextView) findViewById(R.id.textView4);
        t4.setText("EC Branch was established in 1955");
        b4.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {

```

```
        finish();
    }
    });
}

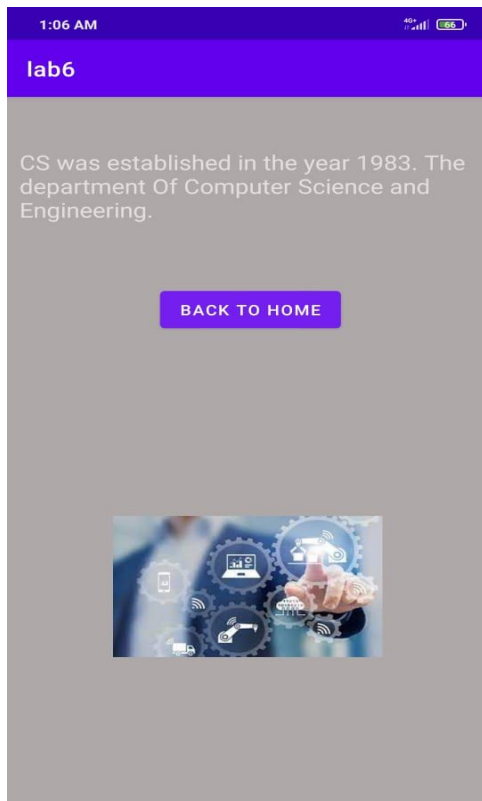
package com.example.gan10;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

public class MainActivity6 extends AppCompatActivity {
    Button b5;
    TextView t5;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main6);
        Button b5=(Button) findViewById(R.id.button5);
        TextView t5=(TextView) findViewById(R.id.textView5);
        t5.setText("IP Branch was established in 1980");
        b5.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                finish();
            }
        });
    }
}
```

OUTPUT:



9. Assume you are accepting employee details: Name, Designation, Salary, Phone number. Develop app that displays an alert message if phone number entered is more than 10 digits.

```
package com.example.gan11;

import androidx.appcompat.app.AlertDialog;
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 {
    Button b1;
    TextView t1,t2,t3,t4;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
```

```

Button b1=(Button) findViewById(R.id.button);
TextView t1=(TextView) findViewById(R.id.textView);
TextView t2=(TextView) findViewById(R.id.textView2);
TextView t3=(TextView) findViewById(R.id.textView3);
TextView t4=(TextView) findViewById(R.id.textView4);
b1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        AlertDialog.Builder alert=new
AlertDialog.Builder(MainActivity.this);
        alert.setCancelable(true);
        alert.setTitle("NUMBER FORMATE");
        if (t4.length()==10)
            alert.setMessage(" Phone Number is Valid");
        else
            alert.setMessage("Phone Number is valid");
        alert.show();
    }
});
}
}

```

OUTPUT

