

```
1 package com.example.assignment3;
2
3 import androidx.appcompat.app.AppCompatActivity;
4
5 import android.content.Intent;
6 import android.os.Bundle;
7 import android.view.View;
8 import android.widget.Button;
9 import android.widget.Toast;
10
11 public class MainActivity extends AppCompatActivity implements View.OnClickListener {
12     private Button
13     btnCalculateGrade,btnCalculateVat,btnCalculateGpa,btnShowGallery,btnExit;
14     @Override
15     protected void onCreate(Bundle savedInstanceState) {
16         super.onCreate(savedInstanceState);
17         setContentView(R.layout.activity_main);
18         btnCalculateGrade = (Button) findViewById(R.id.btnCalculateGrade);
19         btnCalculateGrade.setOnClickListener(this);
20
21         btnCalculateVat = (Button) findViewById(R.id.btnCalculateVat);
22         btnCalculateVat.setOnClickListener(this);
23
24         btnCalculateGpa = (Button) findViewById(R.id.btnCalculateGpa);
25         btnCalculateGpa.setOnClickListener(this);
26
27         btnShowGallery = (Button) findViewById(R.id.btnShowGallery);
28         btnShowGallery.setOnClickListener(this);
29
30         btnExit = (Button) findViewById(R.id.btnExit);
31         btnExit.setOnClickListener(this);
32     }
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
```

```

60
61 @Override
62 public void onClick(View v) {
63     int id = v.getId();
64
65     if (id == R.id.btnCalculateGrade) {
66         Toast.makeText(this, "Welcome page Calculate Grade",
67 Toast.LENGTH_SHORT).show();
68         Intent launchFirst = new Intent( this, GradeActivity.class);
69         startActivity(launchFirst);
70     }
71     else if (id == R.id.btnCalculateVat)
72     {
73         Toast.makeText(this, "Welcome page Calculate Vat",
74 Toast.LENGTH_SHORT).show();
75         Intent launchSecond = new Intent( this, VatActivity.class);
76         startActivity(launchSecond);
77     }
78     else if (id == R.id.btnCalculateGpa)
79     {
80         Toast.makeText(this, "Welcome page Calculate Gpa",
81 Toast.LENGTH_SHORT).show();
82         Intent launchTree = new Intent( this, GpaActivity.class);
83         startActivity(launchTree);
84     }
85     else if (id == R.id.btnShowGallery)
86     {
87         Toast.makeText(this, "Welcome page Gallery", Toast.LENGTH_SHORT).show();
88         Intent launchFour = new Intent(this, GalleryActivity.class);
89         startActivity(launchFour);
90     }
91     else if (id == R.id.btnExit);
92     {
93         Toast.makeText(this, "Exit Main Program", Toast.LENGTH_SHORT).show();
94         finishAffinity();
95     }
96 }
97 }

```