

```

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.EditText;
10 import android.widget.Toast;
11
12 public class GradeActivity extends AppCompatActivity implements View.OnClickListener
13 {
14     private EditText scoreInput , scoreShow , gradeShow;
15     private Button calculateGradeButton, backButtonMain1;
16
17
18
19     @Override
20     protected void onCreate(Bundle savedInstanceState) {
21         super.onCreate(savedInstanceState);
22         setContentView(R.layout.activity_grade);
23         scoreInput = (EditText) findViewById(R.id.scoreInput);
24         scoreShow = (EditText) findViewById(R.id.scoreShow);
25         gradeShow = (EditText) findViewById(R.id.gradeShow);
26
27         calculateGradeButton = (Button) findViewById(R.id.calculateGradeButton);
28         calculateGradeButton.setOnClickListener(this);
29
30         backButtonMain1 = (Button) findViewById(R.id.backButtonMain1);
31         backButtonMain1.setOnClickListener(this);
32
33         scoreShow.setEnabled(false);
34         gradeShow.setEnabled(false);
35
36
37     }
38
39     @Override
40     public void onClick(View v) {
41         if (v == calculateGradeButton) {
42             calcGrade();
43         } else if (v == backButtonMain1) {
44             Toast.makeText(this, "Back Main Program", Toast.LENGTH_SHORT).show();
45             Intent launchMain1 = new Intent( this, MainActivity.class);
46             startActivity(launchMain1);
47         }
48     }
49
50
51
52
53
54
55
56
57
58
59

```

```

60
61     public void calcGrade() {
62 // Get the score from the scoreInput EditText
63         String scoreStr = scoreInput.getText().toString();
64
65         if (!scoreStr.isEmpty()) {
66 // Check if the input contains only one dot (.) and remove it
67             if (scoreStr.equals(".") || scoreStr.startsWith(".") ||
scoreStr.endsWith(".") || scoreStr.indexOf(".") != scoreStr.lastIndexOf(".")) {
68 // Handle case when input contains more than one dot (.) or starts/ends with dot
69                 scoreShow.setText("Please enter a valid score");
70                 gradeShow.setText("Please enter a valid score"); // Clear the grade
display
71             } else {
72 // Parse the input score to a numeric value
73                 double score = Double.parseDouble(scoreStr);
74
75                 scoreShow.setText("" + score);
76
77 // Perform your grading logic here
78                 String grade;
79                 if (score >= 80) {
80                     grade = "A" ;
81                 } else if (score >= 75) {
82                     grade = "B+";
83                 } else if (score >= 70) {
84                     grade = "B";
85                 } else if (score >= 65) {
86                     grade = "C+";
87                 } else if (score >= 60) {
88                     grade = "C";
89                 } else if (score >= 55) {
90                     grade = "D+";
91                 } else if (score >= 50) {
92                     grade = "D";
93                 } else {
94                     grade = "F";
95                 }
96
97 // Display the grade in the gradeShow EditText
98                 gradeShow.setText("" + grade);
99             }
100         } else {
101             // Handle case when input is empty
102             scoreShow.setText("Please enter a score");
103             gradeShow.setText(""); // Clear the grade display
104         }
105     }
106
107
108 }

```