

```
1 package com.example.quiz_app;
2
3 import android.app.AlertDialog;
4 import androidx.appcompat.app.AppCompatActivity;
5 import android.graphics.Color;
6 import android.os.Bundle;
7 import android.view.View;
8 import android.widget.Button;
9 import android.widget.TextView;
10
11 public class MainActivity extends AppCompatActivity
    implements View.OnClickListener{
12     TextView questionTextView;
13     TextView totalQuestionTextView;
14     Button ansA,ansB,ansC,ansD;
15     Button btn_submit;
16
17     int score=0;
18     int totalQuestion = QuestionAnswer.question.
length;
19     int currentQuestionIndex =0;
20     String selectedAnswer="";
21
22     @Override
23     protected void onCreate(Bundle savedInstanceState
){
24         super.onCreate(savedInstanceState);
25         setContentView(R.layout.activity_main);
26
27         totalQuestionTextView = findViewById(R.id.
total_question);
28         questionTextView = findViewById(R.id.question
);
29         ansA = findViewById(R.id.ans_a);
30         ansB = findViewById(R.id.ans_b);
31         ansC = findViewById(R.id.ans_c);
32         ansD = findViewById(R.id.ans_d);
33         btn_submit = findViewById(R.id.btn_submit);
34
35         ansA.setOnClickListener(this);
36         ansB.setOnClickListener(this);
```

```
37         ansC.setOnClickListener(this);
38         ansD.setOnClickListener(this);
39         btn_submit.setOnClickListener(this);
40
41
42         totalQuestionTextView.setText("Total question
: "+totalQuestion);
43
44         loadNewQuestion();
45     }
46
47     private void loadNewQuestion(){
48         if(currentQuestionIndex == totalQuestion){
49             finishQuiz();
50             return;
51         }
52         questionTextView.setText(QuestionAnswer.
question[currentQuestionIndex]);
53         ansA.setText(QuestionAnswer.choices[
currentQuestionIndex][0]);
54         ansB.setText(QuestionAnswer.choices[
currentQuestionIndex][1]);
55         ansC.setText(QuestionAnswer.choices[
currentQuestionIndex][2]);
56         ansD.setText(QuestionAnswer.choices[
currentQuestionIndex][3]);
57
58         selectedAnswer="";
59
60     }
61
62     private void finishQuiz(){
63         String passStatus;
64         if(score >= totalQuestion+0.6){
65             passStatus = "Passed";
66         }else{
67             passStatus = "Failed";
68         }
69         new AlertDialog.Builder( this)
70             .setTitle(passStatus)
71             .setMessage("Your Score id "+score+"

```

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71 Out of "+totalQuestion)
72         .setPositiveButton( "Restart",((
    dialog, i) -> restartQuiz() ))
73         .setCancelable(false)
74         .show();
75     }
76
77     private void restartQuiz(){
78         score = 0;
79         currentQuestionIndex=0;
80         loadNewQuestion();
81     }
82
83     @Override
84     public void onClick(View view){
85         ansA.setBackgroundColor(Color.WHITE);
86         ansB.setBackgroundColor(Color.WHITE);
87         ansC.setBackgroundColor(Color.WHITE);
88         ansC.setBackgroundColor(Color.WHITE);
89
90         Button clickedButton = (Button) view;
91
92         if(clickedButton.getId() == R.id.btn_submit
93     ) {
94             if (!selectedAnswer.isEmpty()) {
95                 if (selectedAnswer.equals(
96     QuestionAnswer.correctAnswers[currentQuestionIndex
97     ])) {
98                     score++;
99                 } else {
100                     clickedButton.setBackgroundColor
101     (Color.MAGENTA);
102                 }
103                 currentQuestionIndex++;
104                 loadNewQuestion();
105             } else {
106                 }
107             }
108         }
109     }
110     else{
111         selectedAnswer=clickedButton.getText

```

```
106 ().toString();
107         clickedButton.setBackgroundColor(
108             Color.YELLOW);
109     }
110 }
```

```
1 package com.example.quiz_app;
2
3 public class QuestionAnswer {
4
5     public static String question []={
6         "What is 10+26 ?",
7         "Who invented Telephone?",
8         "what is 12+9 ?",
9         "who is the founder of SpaceX?",
10        "In the given options,which is the
    Example of System Software?"
11    };
12    public static String choices [][]={
13        {"32" , "42" , "36" ,"38"},
14        {"Graham Bell" , "Einstein" , "Edison" ,
    "None of the above"},
15        {"96" ,"84" ,"102" , "108"},
16        {"Jeff Bezos" , "Elon Musk" ,"Steve Jobs"
    , "Bill Gates"},
17        {"Windows" , "Linux" , "MacOS" ,"All of
    the above"}
18    };
19    public static String correctAnswers []= {
20        "36",
21        "Graham Bell",
22        "108",
23        "Elon Musk",
24        "All of the above"
25    };
26 }
27
```