

**2023 – Lab Exam 01
Report**

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|--|------------|
| Student ID | IT22077424 |
| Batch | 3.02 |
| Marks | |
| 1. Code Quality and Organization (2 Points) | |
| 2. Functionality (4 Points) | |
| 3. Creativity and User Interface Design (2 Points) | |
| 4. Performance and Stability (2 Point) | |
| Total: 10 Marks | |
| Evaluator | |

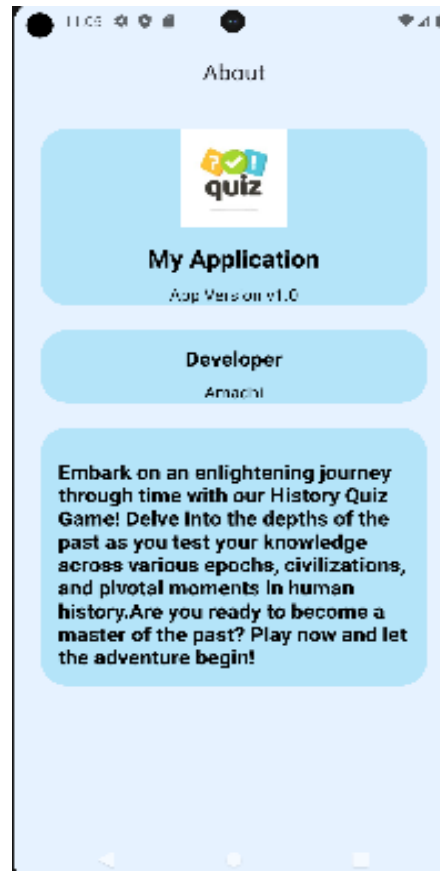
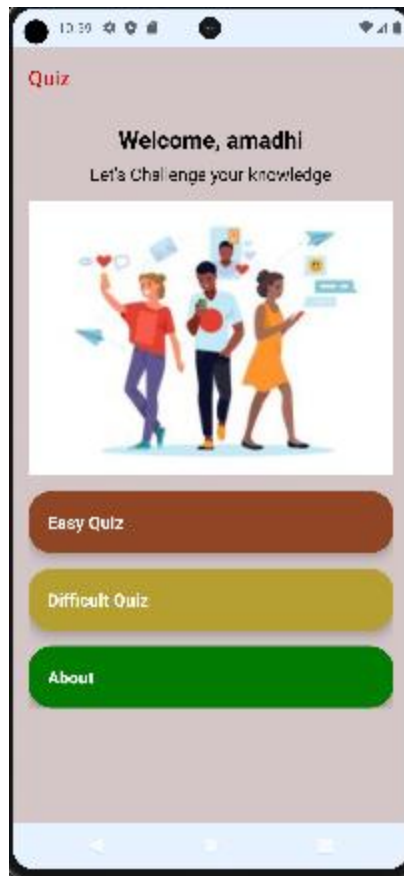
Description:

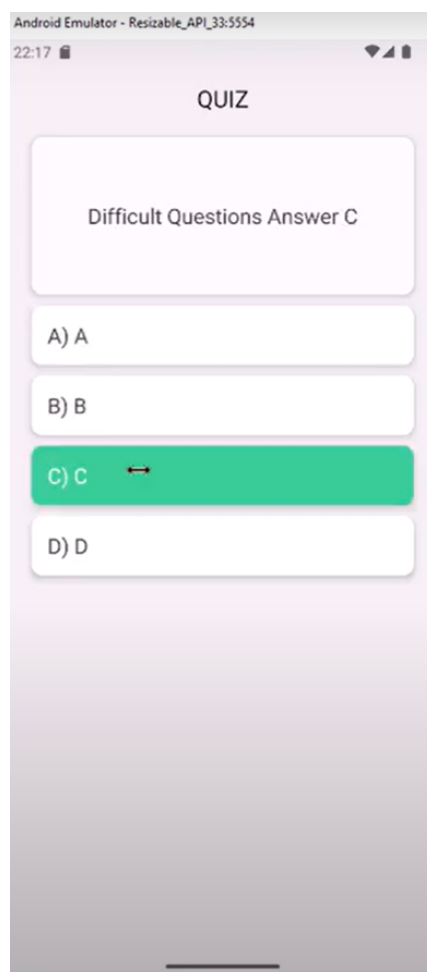
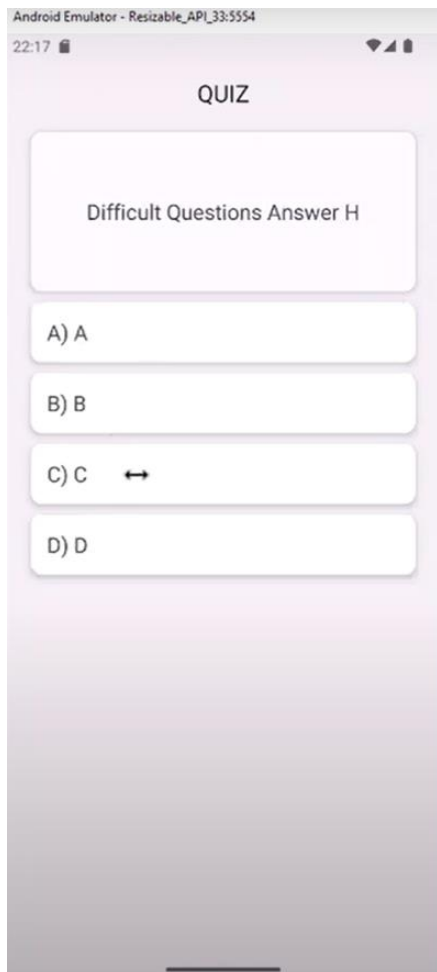
My app is a simple random questioner game. The user picks the easy mode or difficult mode. There are 14 questions. 7 questions for each category hard and simple. After answering user can see score and the high score. After every quiz you can see a fun fact

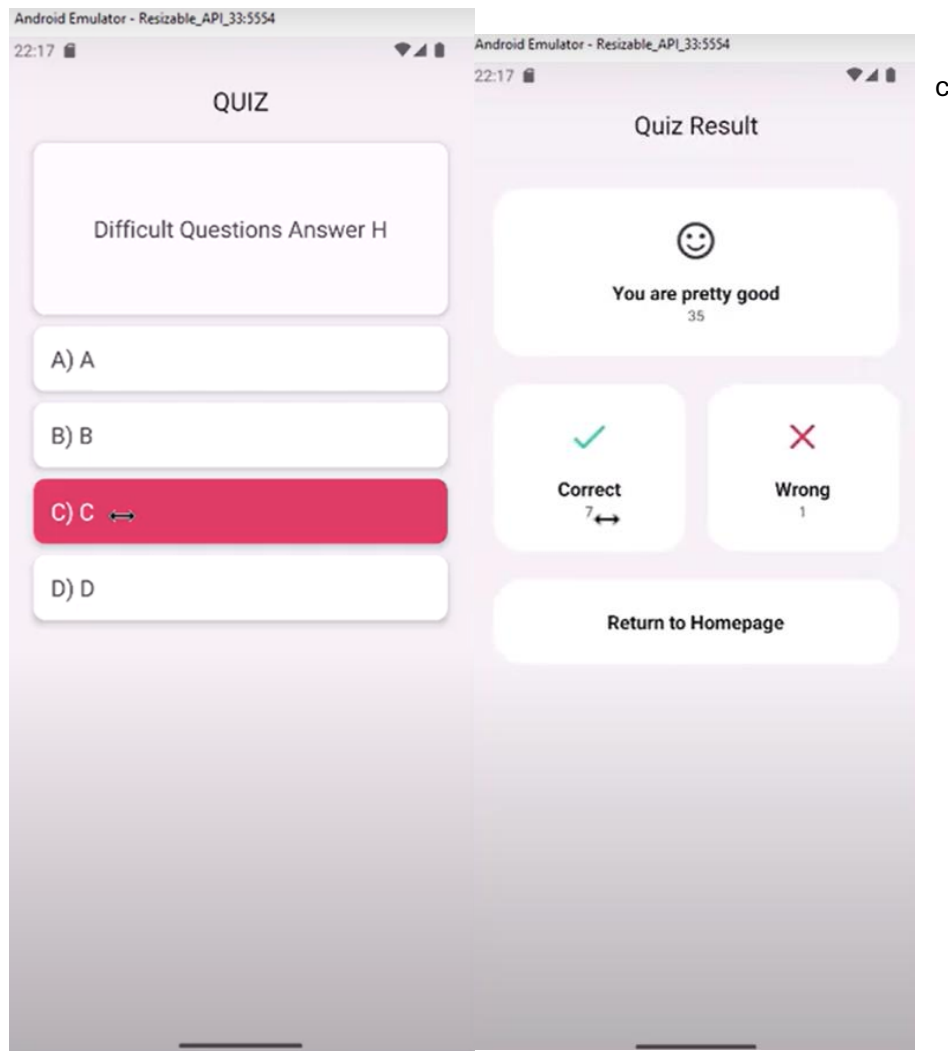
Instructions:

Select the mode then answer each question by clicking on the answers

Screenshots:







AboutActivity.kt

```
package com.lab_exam.myapplication

import android.content.ActivityNotFoundException
import android.content.Intent
import android.content.SharedPreferences
import android.content.res.Configuration
import android.net.Uri
import android.os.Bundle
import androidx.appcompat.app.AppCompatActivity
import com.google.android.material.card.MaterialCardView

class AboutActivity : AppCompatActivity() {
    private lateinit var developerCard: MaterialCardView

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_about)

        developerCard = findViewById(R.id.developerCard)
    }
}
```

```

        // Your existing code for developerCard click listener
        developerCard.setOnClickListener {
            val uri = Uri.parse("https://www.instagram.com/developer")
            val likeIntent = Intent(Intent.ACTION_VIEW, uri)
            likeIntent.setPackage("com.instagram.android")
            try {
                startActivity(likeIntent)
            } catch (e: ActivityNotFoundException) {
                startActivity(Intent(Intent.ACTION_VIEW,
Uri.parse("https://www.instagram.com/developer")))
            }
        }

        override fun onBackPressed() {
            super.onBackPressed()
            startActivity(Intent(this, MainActivity::class.java))
            finish()
        }
    }
}

```

BasicQuiz.kt

```

package com.lab_exam.myapplication

import android.annotation.SuppressLint
import android.content.Context
import android.content.DialogInterface
import android.content.Intent
import android.graphics.Color
import android.os.Bundle
import android.os.Handler
import android.widget.TextView
import androidx.appcompat.app.AppCompatActivity
import com.google.android.material.dialog.MaterialAlertDialogBuilder
import org.json.JSONException
import org.json.JSONObject
import java.io.IOException
import java.io.InputStream

class BasicQuiz : AppCompatActivity() {

    private lateinit var quiztext: TextView
    private lateinit var aans: TextView
    private lateinit var bans: TextView
    private lateinit var cans: TextView
    private lateinit var dans: TextView
    private lateinit var funFactTextView: TextView

    private var questionItems = mutableListOf<QuestionsItems>()
    private var currentQuestions = 0
    private var correct = 0
    private var wrong = 0

    // Array of fun facts

```

```

        private val funFacts = arrayOf(
            "Fun Fact : Rats killed over 75 million Europeans in the Middle Ages.",
            "Fun Fact : The shortest war in history was between Britain and Zanzibar on August 27, 1896. Zanzibar surrendered after 38 minutes.",
            "Fun Fact : The Eiffel Tower can be 15 cm taller during the summer due to thermal expansion of the iron.",
            "Fun Fact : Queen Elizabeth II was never supposed to be queen.",
            "Fun Fact : The Leaning Tower of Pisa never stood up straight.",
            "Fun Fact : The tiny Easter Island is home to 887 giant head statues.",
            "Fun Fact : The first living creature in space was a dog named Laika.",
            "Fun Fact : In Ancient Egypt, the New Year celebration was called Wepet Renpet.",
            "Fun Fact : The Vikings loved grooming.",
        )

        @SuppressWarnings("MissingInflatedId")
        override fun onCreate(savedInstanceState: Bundle?) {
            super.onCreate(savedInstanceState)
            setContentView(R.layout.activity_quiz)

            quiztext = findViewById(R.id.quizText)
            aans = findViewById(R.id.aanswer)
            bans = findViewById(R.id.banswer)
            cans = findViewById(R.id.canswer)
            dans = findViewById(R.id.danswer)
            funFactTextView = findViewById(R.id.funFactTextView) // Initialize funFactTextView

            // Display the high score
            displayHighScore()

            // Load questions
            loadAllQuestions()
            questionItems.shuffle()
            setQuestionScreen(currentQuestions)

            // Set click listeners for answer options
            aans.setOnClickListener {
                checkAnswer(questionItems[currentQuestions].answer1, aans)
            }
            bans.setOnClickListener {
                checkAnswer(questionItems[currentQuestions].answer2, bans)
            }
            cans.setOnClickListener {
                checkAnswer(questionItems[currentQuestions].answer3, cans)
            }
            dans.setOnClickListener {
                checkAnswer(questionItems[currentQuestions].answer4, dans)
            }

            // Set random fun fact
            setRandomFunFact()
        }

```

```

private fun displayHighScore() {
    // Find the TextView for high score
    val highScoreTextView =
findViewById<TextView>(R.id.highScoreTextView)

    // Retrieve the high score from SharedPreferences
    val sharedPreferences = getSharedPreferences("HighScores",
Context.MODE_PRIVATE)
    val highScore = sharedPreferences.getInt("highScore", 0)

    // Display the high score
    highScoreTextView.text = "High Score: $highScore"
}

private fun checkAnswer(selectedAnswer: String, selectedView: TextView) {
    val correctAnswer = questionItems[currentQuestions].correct

    if (selectedAnswer == correctAnswer) {
        correct++
        // Change the text color of the selected answer to green
        selectedView.setTextColor(Color.GREEN)
    } else {
        wrong++
        // Change the text color of the selected answer to red
        selectedView.setTextColor(Color.RED)
    }

    // Disable click listeners on all answers
    aans.isClickable = false
    bans.isClickable = false
    cans.isClickable = false
    dans.isClickable = false

    // Delay for 500 milliseconds before moving to the next question
    Handler().postDelayed({
        currentQuestions++
        if (currentQuestions < questionItems.size) {
            setQuestionScreen(currentQuestions)
            // Reset text color for the next question
            resetAnswerColors()
            // Enable click listeners on all answers for the next
question
            aans.isClickable = true
            bans.isClickable = true
            cans.isClickable = true
            dans.isClickable = true
            // Set a new random fun fact
            setRandomFunFact()
        } else {
            val intent = Intent(this@BasicQuiz,
ResultActivity::class.java)
            intent.putExtra("correct", correct)
            intent.putExtra("wrong", wrong)
            startActivity(intent)
            finish()
        }
    }, 500)
}

```

```

    }

    private fun setQuestionScreen(currentQuestions: Int) {
        val currentItem = questionItems[currentQuestions]
        quiztext.text = currentItem.questions
        aans.text = currentItem.answer1
        bans.text = currentItem.answer2
        cans.text = currentItem.answer3
        dans.text = currentItem.answer4
    }

    private fun loadAllQuestions() {
        questionItems = mutableListOf()
        val jsonQuiz = loadJsonFromAsset("easyquestions.json")
        try {
            val jsonObject = JSONObject(jsonQuiz)
            val questions = jsonObject.getJSONArray("easyquestions")
            for (i in 0 until questions.length()) {
                val question = questions.getJSONObject(i)
                val questionString = question.getString("question")
                val answer1String = question.getString("answer1")
                val answer2String = question.getString("answer2")
                val answer3String = question.getString("answer3")
                val answer4String = question.getString("answer4")
                val correctString = question.getString("correct")
                questionItems.add(QuestionsItems(
                    questionString,
                    answer1String,
                    answer2String,
                    answer3String,
                    answer4String,
                    correctString,

                ))
            }
        } catch (e: JSONException) {
            e.printStackTrace()
            // Handle JSON parsing error here, for example:
            // Toast.makeText(this, "Error loading questions",
Toast.LENGTH_SHORT).show()
            // Log.e("BasicQuiz", "Error loading questions", e)
        }
    }

    private fun loadJsonFromAsset(s: String): String {
        var json = ""
        try {
            val inputStream: InputStream = assets.open(s)
            val size = inputStream.available()
            val buffer = ByteArray(size)
            inputStream.read(buffer)
            inputStream.close()
            json = String(buffer, charset("UTF-8"))
        } catch (e: IOException) {
            e.printStackTrace()
        }
    }

```



```

        return json
    }

    private fun resetAnswerColors() {
        aans.setTextColors(Color.BLACK)
        bans.setTextColors(Color.BLACK)
        cans.setTextColors(Color.BLACK)
        dans.setTextColors(Color.BLACK)
    }

    private fun setRandomFunFact() {
        // Generate a random index to select a fun fact
        val randomIndex = (0 until funFacts.size).random()
        // Set the selected fun fact to the TextView
        funFactTextView.text = funFacts[randomIndex]
    }

    override fun onBackPressed() {
        super.onBackPressed() // Call the superclass implementation
        val materialAlertDialogBuilder = MaterialAlertDialogBuilder(this)
        materialAlertDialogBuilder.setTitle(R.string.app_name)
        materialAlertDialogBuilder.setMessage("Are you sure you want to exit the quiz?")
        materialAlertDialogBuilder.setNegativeButton(android.R.string.no) {
            dialogInterface: DialogInterface, i: Int ->
                dialogInterface.dismiss()
        }
        materialAlertDialogBuilder.setPositiveButton(android.R.string.yes) {
            dialogInterface: DialogInterface, i: Int ->
                startActivity(Intent(this@BasicQuiz, MainActivity::class.java))
                finish()
        }
        materialAlertDialogBuilder.show()
    }
}

```

DifficultQuiz.kt

```

package com.lab_exam.myapplication

import android.content.DialogInterface
import android.content.Intent
import android.graphics.Color
import android.os.Bundle
import android.os.Handler
import android.widget.TextView
import androidx.appcompat.app.AppCompatActivity
import com.google.android.material.dialog.MaterialAlertDialogBuilder
import org.json.JSONObject
import android.content.Context

import java.io.InputStream

class DifficultQuiz : AppCompatActivity() {

    private lateinit var quiztext: TextView

```

```

private lateinit var aans: TextView
private lateinit var bans: TextView
private lateinit var cans: TextView
private lateinit var dans: TextView
private lateinit var highScoreTextView: TextView // Added
private lateinit var funFactTextView: TextView // Added

private lateinit var questionItems: MutableList<QuestionsItems>
private var currentQuestions = 0
private var correct = 0
private var wrong = 0

override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_quiz)

    quiztext = findViewById(R.id.quizText)
    aans = findViewById(R.id.aanswer)
    bans = findViewById(R.id.banswer)
    cans = findViewById(R.id.canswer)
    dans = findViewById(R.id.danswer)
    highScoreTextView = findViewById(R.id.highScoreTextView) // Added
    funFactTextView = findViewById(R.id.funFactTextView) // Added

    loadAllQuestions()
    questionItems.shuffle()
    setQuestionScreen(currentQuestions)

    aans.setOnClickListener {
        checkAnswer(aans.text.toString(), aans)
    }

    bans.setOnClickListener {
        checkAnswer(bans.text.toString(), bans)
    }

    cans.setOnClickListener {
        checkAnswer(cans.text.toString(), cans)
    }

    dans.setOnClickListener {
        checkAnswer(dans.text.toString(), dans)
    }

    // Display the high score
    displayHighScore()
    // Display a random fun fact
    setRandomFunFact()
}

private fun setQuestionScreen(currentQuestions: Int) {
    quiztext.text = questionItems[currentQuestions].questions
    aans.text = questionItems[currentQuestions].answer1
    bans.text = questionItems[currentQuestions].answer2
    cans.text = questionItems[currentQuestions].answer3
    dans.text = questionItems[currentQuestions].answer4
}

```

```

private fun checkAnswer(selectedAnswer: String, selectedView: TextView) {
    val correctAnswer = questionItems[currentQuestions].correct

    if (selectedAnswer == correctAnswer) {
        correct++
        // Change the text color of the selected answer to green
        selectedView.setTextColor(Color.GREEN)
    } else {
        wrong++
        // Change the text color of the selected answer to red
        selectedView.setTextColor(Color.RED)
    }

    // Disable click listeners on all answers
    aans.isClickable = false
    bans.isClickable = false
    cans.isClickable = false
    dans.isClickable = false

    // Delay for 500 milliseconds before moving to the next question
    Handler().postDelayed({
        currentQuestions++
        if (currentQuestions < questionItems.size) {
            setQuestionScreen(currentQuestions)
            // Reset text color for the next question
            resetAnswerColors()
            // Enable click listeners on all answers for the next
question
            aans.isClickable = true
            bans.isClickable = true
            cans.isClickable = true
            dans.isClickable = true
            // Display a new random fun fact
            setRandomFunFact()
        } else {
            val intent = Intent(this@DifficultQuiz,
ResultActivity::class.java)
            intent.putExtra("correct", correct)
            intent.putExtra("wrong", wrong)
            startActivity(intent)
            finish()
        }
    }, 500)
}

private fun loadAllQuestions() {
    questionItems = mutableListOf()
    val jsonQuiz = loadJsonFromAsset("difficultquestions.json")
    try {
        val jsonObject = JSONObject(jsonQuiz)
        val questions = jsonObject.getJSONArray("difficultquestions")
        for (i in 0 until questions.length()) {
            val question = questions.getJSONObject(i)
            val questionString = question.getString("question")
            val answer1String = question.getString("answer1")
            val answer2String = question.getString("answer2")

```

```

        val answer3String = question.getString("answer3")
        val answer4String = question.getString("answer4")
        val correctString = question.getString("correct")

        questionItems.add(QuestionsItems(questionString,
answer1String, answer2String, answer3String, answer4String, correctString))
    }
    } catch (e: Exception) {
        e.printStackTrace()
    }
}

private fun loadJsonFromAsset(s: String): String {
    var json = ""
    try {
        val inputStream = assets.open(s)
        val size = inputStream.available()
        val buffer = ByteArray(size)
        inputStream.read(buffer)
        inputStream.close()
        json = String(buffer, charset("UTF-8"))
    } catch (e: Exception) {
        e.printStackTrace()
    }
    return json
}

private fun resetAnswerColors() {
    aans.setTextColors(Color.BLACK)
    bans.setTextColors(Color.BLACK)
    cans.setTextColors(Color.BLACK)
    dans.setTextColors(Color.BLACK)
}

private fun displayHighScore() {
    // Retrieve the high score from SharedPreferences
    val sharedPreferences = getSharedPreferences("HighScores",
Context.MODE_PRIVATE)
    val highScore = sharedPreferences.getInt("highScore", 0)

    // Display the high score
    highScoreTextView.text = "High Score: $highScore"
}

private fun setRandomFunFact() {
    // Array of fun facts
    val funFacts = arrayOf(
        "Fun Fact : Rats killed over 75 million Europeans in the Middle
Ages.",
        "Fun Fact : The shortest war in history was between Britain and
Zanzibar on August 27, 1896. Zanzibar surrendered after 38 minutes.",
        "Fun Fact : The Eiffel Tower can be 15 cm taller during the
summer due to thermal expansion of the iron.",
        "Fun Fact : Queen Elizabeth II was never supposed to be queen.",
        "Fun Fact : The Leaning Tower of Pisa never stood up straight.",
        "Fun Fact : The tiny Easter Island is home to 887 giant head
statues.",

```

```

        "Fun Fact : The first living creature in space was a dog named
Laika.",
        "Fun Fact : In Ancient Egypt, the New Year celebration was called
Wepet Renpet.",
        "Fun Fact : The Vikings loved grooming.",
    )

    // Generate a random index to select a fun fact
    val randomIndex = (0 until funFacts.size).random()
    // Set the selected fun fact to the TextView
    funFactTextView.text = funFacts[randomIndex]
}

override fun onBackPressed() {
    super.onBackPressed() // Call the superclass method
    val materialAlertDialogBuilder =
MaterialAlertDialogBuilder(this@DifficultQuiz)
    materialAlertDialogBuilder.setTitle(R.string.app_name)
    materialAlertDialogBuilder.setMessage("Are you sure you want to exit
the quiz?")
    materialAlertDialogBuilder.setNegativeButton(android.R.string.no) {
dialogInterface: DialogInterface, i: Int ->
        dialogInterface.dismiss()
    }
    materialAlertDialogBuilder.setPositiveButton(android.R.string.yes) {
dialogInterface: DialogInterface, i: Int ->
        startActivity(Intent(this@DifficultQuiz,
MainActivity::class.java))
        finish()
    }
    materialAlertDialogBuilder.show()
}
}

```

MainActivity.kt

```

package com.lab_exam.myapplication

import android.content.DialogInterface
import android.content.Intent
import android.content.SharedPreferences
import android.content.res.Configuration
import android.os.Bundle
import androidx.appcompat.app.AppCompatActivity
import com.google.android.material.dialog.MaterialAlertDialogBuilder
import com.google.android.material.card.MaterialCardView

class MainActivity : AppCompatActivity() {
    private lateinit var easycard: MaterialCardView
    private lateinit var difficultcard: MaterialCardView
    private lateinit var aboutcard: MaterialCardView

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
    }
}

```

```

        val sharedPreferences: SharedPreferences =
getSharedPreferences(MyPREFERENCES, MODE_PRIVATE)

        easycard = findViewById(R.id.easyCard)
        difficultcard = findViewById(R.id.difficultCard)
        aboutcard = findViewById(R.id.aboutCard)

        easycard.setOnClickListener {
            startActivity(Intent(this@MainActivity, BasicQuiz::class.java))
            finish()
        }
        difficultcard.setOnClickListener {
            startActivity(Intent(this@MainActivity,
DifficultQuiz::class.java))
            finish()
        }
        aboutcard.setOnClickListener {
            startActivity(Intent(this@MainActivity,
AboutActivity::class.java))
            finish()
        }
    }

    override fun onBackPressed() {
        super.onBackPressed()
        val materialAlertDialogBuilder = MaterialAlertDialogBuilder(this)
        materialAlertDialogBuilder.setTitle(R.string.app_name)
        materialAlertDialogBuilder.setMessage("Are you sure you want to exit
the app?")
        materialAlertDialogBuilder.setNegativeButton(android.R.string.no) {
            dialogInterface: DialogInterface, i: Int ->
                dialogInterface.dismiss()
        }
        materialAlertDialogBuilder.setPositiveButton(android.R.string.yes) {
            dialogInterface: DialogInterface, i: Int ->
                finish()
        }
        materialAlertDialogBuilder.show()
    }

    companion object {
        const val MyPREFERENCES = "QuizPrefs"
    }
}

```

QuestionsItems.kt

```

package com.lab_exam.myapplication

class QuestionsItems(
    var questions: String,
    var answer1: String,
    var answer2: String,
    var answer3: String,
    var answer4: String,

```

```

        var correct: String,
    )
ResultActivity.kt package com.lab_exam.myapplication

import android.content.Context
import android.content.Intent
import android.content.SharedPreferences
import android.content.res.Configuration
import android.os.Bundle
import android.widget.ImageView
import android.widget.TextView
import androidx.appcompat.app.AppCompatActivity
import com.google.android.material.card.MaterialCardView

class ResultActivity : AppCompatActivity() {
    private lateinit var home: MaterialCardView
    private lateinit var correctt: TextView
    private lateinit var wrongt: TextView
    private lateinit var resultinfo: TextView
    private lateinit var resultscore: TextView
    private lateinit var resultImage: ImageView
    private lateinit var sharedPreferences: SharedPreferences

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_result)

        home = findViewById(R.id.returnHome)
        correctt = findViewById(R.id.correctScore)
        wrongt = findViewById(R.id.wrongScore)
        resultinfo = findViewById(R.id.resultInfo)
        resultscore = findViewById(R.id.resultScore)
        resultImage = findViewById(R.id.resultImage)

        sharedPreferences = getSharedPreferences("HighScores",
Context.MODE_PRIVATE)

        val correct = intent.getIntExtra("correct", 0)
        val wrong = intent.getIntExtra("wrong", 0)
        val score = correct * 5

        correctt.text = correct.toString()
        wrongt.text = wrong.toString()
        resultscore.text = score.toString()

        val highScoreTextView =
findViewById<TextView>(R.id.highScoreTextView)
        val highScore = sharedPreferences.getInt("highScore", 0)
        highScoreTextView.text = "High Score: $highScore"

        if (score > highScore) {
            with(sharedPreferences.edit()) {
                putInt("highScore", score)
            }
        }
    }
}

```

```

        apply()
    }
}

when {
    correct >= 0 && correct <= 2 -> {
        resultinfo.text = "You have to take the test again"
        resultImage.setImageResource(R.drawable.ic_sad)
    }
    correct in 3..5 -> {
        resultinfo.text = "You have to try a little more"
        resultImage.setImageResource(R.drawable.ic_neutral)
    }
    correct in 6..8 -> {
        resultinfo.text = "You are pretty good"
        resultImage.setImageResource(R.drawable.ic_smile)
    }
    else -> {
        resultinfo.text = "You are very good congratulations"
        resultImage.setImageResource(R.drawable.ic_sad)
    }
}

home.setOnClickListener {
    startActivity(Intent(this@ResultActivity,
MainActivity::class.java))
    finish()
}
}
}

```

SplashActivity.kt

```

package com.lab_exam.myapplication

import android.content.Context
import android.content.Intent
import android.content.SharedPreferences
import android.content.res.Configuration
import android.os.Bundle
import androidx.appcompat.app.AppCompatActivity
import androidx.appcompat.app.AppCompatActivity

class SplashActivity : AppCompatActivity() {

    companion object {
        var checked: Int = 0
        const val MyPREFERENCES = "QuizPrefs"
    }

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_splash)

        val sharedPreferences: SharedPreferences =

```



```

getSharedPreferences(MyPREFERENCES, Context.MODE_PRIVATE)
    val default1: Int = when (resources.configuration.uiMode and
Configuration.UI_MODE_NIGHT_MASK) {
        AppCompatActivity.MODE_NIGHT_NO -> 0
        AppCompatActivity.MODE_NIGHT_YES -> 1
        else -> 2
    }
    checked = sharedPreferences.getInt("checked", default1)
    when (checked) {
        0 ->
AppCompatActivity.setDefaultNightMode (AppCompatActivity.MODE_NIGHT_NO)
        1 ->
AppCompatActivity.setDefaultNightMode (AppCompatActivity.MODE_NIGHT_YES)
        2 ->
AppCompatActivity.setDefaultNightMode (AppCompatActivity.MODE_NIGHT_FOLLOW_SYS
TEM)
        3 ->
AppCompatActivity.setDefaultNightMode (AppCompatActivity.MODE_NIGHT_AUTO_BATTE
RY)
    }

    val mSplashThread = Thread {
        try {
            Thread.sleep(2000)
        } catch (ignored: InterruptedException) {
        } finally {
            startActivity(Intent(applicationContext,
MainActivity::class.java))
            finish()
        }
    }

    mSplashThread.start()
}
}

```

assets

difficultquestions.json

```

{
  "difficultquestions": [
    {
      "question": "how meny infinity stones are there",
      "answer1": "A) 7",
      "answer2": "B) 5",
      "answer3": "C) 6",
      "answer4": "D) 3",
      "correct": "A) 7"
    },
    {
      "question": "Which country has won the most FIFA World Cup titles?",
      "answer1": "A) Brazil",
      "answer2": "B) Germany",
      "answer3": "C) Italy",
      "answer4": "D) Argentina",
      "correct": "A) Brazil"
    },
  ],
}

```

```

{
  "question": "What is the only food that cannot go bad?",
  "answer1": "A) chocolate",
  "answer2": "B) honey",
  "answer3": "C) butter",
  "answer4": "D) sugar syrup",
  "correct": "B) honey"
},
{
  "question": "What's the name of Hagrid's pet spider'?",
  "answer1": "A) nagini",
  "answer2": "B) Aragog",
  "answer3": "C) mosang",
  "answer4": "D) padfoot",
  "correct": "B) aragog"
},
{
  "question": "What element does the chemical symbol au stand for??",
  "answer1": "A) gold",
  "answer2": "B) silver",
  "answer3": "C) magnisiuem",
  "answer4": "D) austin",
  "correct": "A) gold"
},
{
  "question": "Which football club has won the most UEFA Champions League titles?",
  "answer1": "A) Real Madrid",
  "answer2": "B) FC Barcelona",
  "answer3": "C) Bayern Munich",
  "answer4": "D) AC Milan",
  "correct": "A) Real Madrid"
},
{
  "question": "What is the name of the coffee shop in the sitcom Friends",
  "answer1": "A) central park",
  "answer2": "B) java park",
  "answer3": "C) centarl park coffee",
  "answer4": "D) central perk",
  "correct": "D) central perk"
},
{
  "question": "The first vaccine was for which disease?",
  "answer1": "A) polio",
  "answer2": "B) moneky pox",
  "answer3": "C) small pox",
  "answer4": "D) chickenpox",
  "correct": "C) small pox"
}
]
}

```

Easyquestions.json

```

{
  "easyquestions": [
    {

```

```
"question": "Which country won the FIFA World Cup in 2018?",
"answer1": "A) France",
"answer2": "B) Brazil",
"answer3": "C) Germany",
"answer4": "D) Argentina",
"correct": "A) France"
},
{
  "question": "Which cereal grain is the most commonly used in beer?",
  "answer1": "A) corn",
  "answer2": "B) wheat",
  "answer3": "C) barley",
  "answer4": "D) hops",
  "correct": "C) hops"
},
{
  "question": "What country is Shakura flower is from??",
  "answer1": "A) japan",
  "answer2": "B) colombia",
  "answer3": "C) nepal",
  "answer4": "D) chaina",
  "correct": "A) japan"
},
{
  "question": "What was the ancient Goddess of Love?",
  "answer1": "A) helena",
  "answer2": "B) venus",
  "answer3": "C) hera",
  "answer4": "D) medusa",
  "correct": "B) venues"
},
{
  "question": "What is the hardest natural substance in the world?",
  "answer1": "A) diamond",
  "answer2": "B) granite",
  "answer3": "C) mable",
  "answer4": "D) ruby",
  "correct": "A) diamond"
},
{
  "question": "Which animal has the largest eyes?",
  "answer1": "A) blue whale",
  "answer2": "B) giant squid",
  "answer3": "C) Ostrich",
  "answer4": "D) owl",
  "correct": "B) giant squid"
},
{
  "question": "What is the airspeed velocity of an unladen swallow?",
  "answer1": "A) 48 MPH",
  "answer2": "B) 34 MPH",
  "answer3": "C) 24 MPH",
  "answer4": "D) 58 MPH",
  "correct": "C) 24 MPH"
},
{
  "question": "25. What animal is known to be 'man's best friend?",
```

```

        "answer1": "A) Dog",
        "answer2": "B) Wolf",
        "answer3": "C) Cat",
        "answer4": "D) Horse",
        "correct": "A) Dog"
    }
}
}

```

Res

Drawable

lc_correct.xml

```

<vector android:height="24dp" android:tint="@color/green"
    android:viewportHeight="24" android:viewportWidth="24"
    android:width="24dp"
xmlns:android="http://schemas.android.com/apk/res/android">
    <path android:fillColor="@android:color/white"
android:pathData="M22,5.18L10.59,16.61-4.24,-4.24l11.41,-1.41l12.83,2.83l10,-
10L22,5.18zM12,20c-4.41,0 -8,-3.59 -8,-8s3.59,-8 8,-8c1.57,0 3.04,0.46
4.28,1.25l11.45,-1.45C16.1,2.67 14.13,2 12,2C6.48,2 2,6.48 2,12s4.48,10
10,10c1.73,0 3.36,-0.44 4.78,-1.22l-1.5,-1.5C14.28,19.74 13.17,20
12,20zM19,15h-3v2h3v3h2v-3h3v-2h-3v-3h-2V15z"/>
</vector>

```

lc_lanuch_background.xml

```

<?xml version="1.0" encoding="utf-8"?>
<vector xmlns:android="http://schemas.android.com/apk/res/android"
    android:width="108dp"
    android:height="108dp"
    android:viewportWidth="108"
    android:viewportHeight="108">
    <path
        android:fillColor="#3DDC84"
        android:pathData="M0,0h108v108h-108z" />
    <path
        android:fillColor="#00000000"
        android:pathData="M9,0L9,108"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M19,0L19,108"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M29,0L29,108"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"

```

```

        android:pathData="M39,0L39,108"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M49,0L49,108"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M59,0L59,108"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M69,0L69,108"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M79,0L79,108"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M89,0L89,108"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M99,0L99,108"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M0,9L108,9"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M0,19L108,19"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M0,29L108,29"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M0,39L108,39"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M0,49L108,49"
        android:strokeWidth="0.8"

```

```
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M0,59L108,59"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M0,69L108,69"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M0,79L108,79"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M0,89L108,89"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M0,99L108,99"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M19,29L89,29"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M19,39L89,39"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M19,49L89,49"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M19,59L89,59"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M19,69L89,69"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M19,79L89,79"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
```

```

        android:fillColor="#00000000"
        android:pathData="M29,19L29,89"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M39,19L39,89"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M49,19L49,89"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M59,19L59,89"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M69,19L69,89"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M79,19L79,89"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
</vector>

```

lc_hitory.png



```

lc_luncher_foreground.xml <vector
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:aapt="http://schemas.android.com/aapt"
    android:width="108dp"
    android:height="108dp"
    android:viewportWidth="108"
    android:viewportHeight="108">
    <path android:pathData="M31,63.928c0,0 6.4,-11 12.1,-13.1c7.2,-2.6 26,-

```

```

1.4 26,-1.4138.1,38.1L107,108.9281-32,-1L31,63.928z">
    <aapt:attr name="android:fillColor">
        <gradient
            android:endX="85.84757"
            android:endY="92.4963"
            android:startX="42.9492"
            android:startY="49.59793"
            android:type="linear">
                <item
                    android:color="#44000000"
                    android:offset="0.0" />
                <item
                    android:color="#00000000"
                    android:offset="1.0" />
            </gradient>
        </aapt:attr>
    </path>
    <path
        android:fillColor="#FFFFFF"
        android:fillType="nonZero"
        android:pathData="M65.3,45.82813.8,-6.6c0.2,-0.4 0.1,-0.9 -0.3,-1.1c-
0.4,-0.2 -0.9,-0.1 -1.1,0.3l-3.9,6.7c-6.3,-2.8 -13.4,-2.8 -19.7,0l-3.9,-6.7c-
0.2,-0.4 -0.7,-0.5 -1.1,-0.3C38.8,38.328 38.7,38.828
38.9,39.22813.8,6.6C36.2,49.428 31.7,56.028 31,63.928h46C76.3,56.028
71.8,49.428 65.3,45.828zM43.4,57.328c-0.8,0 -1.5,-0.5 -1.8,-1.2c-0.3,-0.7 -
0.1,-1.5 0.4,-2.1c0.5,-0.5 1.4,-0.7 2.1,-0.4c0.7,0.3 1.2,1
1.2,1.8C45.3,56.528 44.5,57.328 43.4,57.328L43.4,57.328zM64.6,57.328c-0.8,0 -
1.5,-0.5 -1.8,-1.2s-0.1,-1.5 0.4,-2.1c0.5,-0.5 1.4,-0.7 2.1,-0.4c0.7,0.3
1.2,1 1.2,1.8C66.5,56.528 65.6,57.328 64.6,57.328L64.6,57.328z"
        android:strokeWidth="1"
        android:strokeColor="#00000000" />
</vector>

```

lc_neutral.xml

```

<?xml version="1.0" encoding="utf-8"?>
<vector android:height="24dp" android:tint="@color/secondary_text_color"
    android:viewportHeight="24" android:viewportWidth="24"
    android:width="24dp"
xmlns:android="http://schemas.android.com/apk/res/android">
    <path android:fillColor="@android:color/white"
        android:pathData="M9,11.75c-0.69,0 -1.25,0.56 -1.25,1.25s0.56,1.25 1.25,1.25
1.25,-0.56 1.25,-1.25 -0.56,-1.25 -1.25,-1.25zM15,11.75c-0.69,0 -1.25,0.56 -
1.25,1.25s0.56,1.25 1.25,1.25 1.25,-0.56 1.25,-1.25 -0.56,-1.25 -1.25,-
1.25zM12,2C6.48,2 2,6.48 2,12s4.48,10 10,10 10,-4.48 10,-10S17.52,2
12,2zM12,20c-4.41,0 -8,-3.59 -8,-8 0,-0.29 0.02,-0.58 0.05,-0.86 2.36,-1.05
4.23,-2.98 5.21,-5.37C11.07,8.33 14.05,10 17.42,10c0.78,0 1.53,-0.09 2.25,-
0.26 0.21,0.71 0.33,1.47 0.33,2.26 0,4.41 -3.59,8 -8,8z"/>
</vector>

```

lc_sad.xml

```

<vector android:height="24dp" android:tint="@color/secondary_text_color"
    android:viewportHeight="24" android:viewportWidth="24"
    android:width="24dp"

```



```

xmlns:android="http://schemas.android.com/apk/res/android">
    <path android:fillColor="@android:color/white" android:pathData="M9,13m-
1.25,0a1.25,1.25 0,1 1,2.5 0a1.25,1.25 0,1 1,-2.5 0"/>
    <path android:fillColor="@android:color/white"
android:pathData="M17.5,10c0.75,0 1.47,-0.09 2.17,-0.24C19.88,10.47 20,11.22
20,12c0,1.22 -0.28,2.37 -0.77,3.41l1.49,1.49C21.53,15.44 22,13.78 22,12c0,-
5.52 -4.48,-10 -10,-10c-1.78,0 -3.44,0.47 -4.89,1.28l5.33,5.33C13.93,9.49
15.65,10 17.5,10z"/>
    <path android:fillColor="@android:color/white"
android:pathData="M1.89,3.72l2.19,2.19C2.78,7.6 2,9.71 2,12c0,5.52 4.48,10
10,10c2.29,0 4.4,-0.78 6.09,-2.08l2.19,2.19l1.41,-
1.41L3.31,2.31L1.89,3.72zM16.66,18.49C15.35,19.44 13.74,20 12,20c-4.41,0 -8,-
3.59 -8,-8c0,-0.05 0.01,-0.1 0,-0.14c1.39,-0.52 2.63,-1.35 3.64,-
2.39L16.66,18.49z"/>
</vector>

```

lc_smile.xml

```

<?xml version="1.0" encoding="utf-8"?>
<vector android:height="24dp" android:tint="@color/secondary_text_color"
    android:viewportHeight="24" android:viewportWidth="24"
    android:width="24dp"
xmlns:android="http://schemas.android.com/apk/res/android">
    <path android:fillColor="@android:color/white"
android:pathData="M14.5,10.5m-1.25,0a1.25,1.25 0,1 1,2.5 0a1.25,1.25 0,1 1,-
2.5 0"/>
    <path android:fillColor="@android:color/white"
android:pathData="M9.5,10.5m-1.25,0a1.25,1.25 0,1 1,2.5 0a1.25,1.25 0,1 1,-
2.5 0"/>
    <path android:fillColor="@android:color/white"
android:pathData="M22.94,12.66c0.04,-0.21 0.06,-0.43 0.06,-0.66s-0.02,-0.45 -
0.06,-0.66c-0.25,-1.51 -1.36,-2.74 -2.81,-3.17 -0.53,-1.12 -1.28,-2.1 -2.19,-
2.91C16.36,3.85 14.28,3 12,3s-4.36,0.85 -5.94,2.26c-0.92,0.81 -1.67,1.8 -
2.19,2.91 -1.45,0.43 -2.56,1.65 -2.81,3.17 -0.04,0.21 -0.06,0.43 -
0.06,0.66s0.02,0.45 0.06,0.66c0.25,1.51 1.36,2.74 2.81,3.17 0.52,1.11
1.27,2.09 2.17,2.89C7.62,20.14 9.71,21 12,21s4.38,-0.86 5.97,-2.28c0.9,-0.8
1.65,-1.79 2.17,-2.89 1.44,-0.43 2.55,-1.65 2.8,-3.17zM19,14c-0.1,0 -0.19,-
0.02 -0.29,-0.03 -0.2,0.67 -0.49,1.29 -0.86,1.86C16.6,17.74 14.45,19 12,19s-
4.6,-1.26 -5.85,-3.17c-0.37,-0.57 -0.66,-1.19 -0.86,-1.86 -0.1,0.01 -
0.19,0.03 -0.29,0.03 -1.1,0 -2,-0.9 -2,-2s0.9,-2 2,-2c0.1,0 0.19,0.02
0.29,0.03 0.2,-0.67 0.49,-1.29 0.86,-1.86C7.4,6.26 9.55,5 12,5s4.6,1.26
5.85,3.17c0.37,0.57 0.66,1.19 0.86,1.86 0.1,-0.01 0.19,-0.03 0.29,-0.03 1.1,0
2,0.9 2,2s-0.9,2 -2,2zM7.5,14c0.76,1.77 2.49,3 4.5,3s3.74,-1.23 4.5,-3h-9z"/>
</vector>

```

lc_wrong.xml

```

<?xml version="1.0" encoding="utf-8"?>
<vector android:height="24dp" android:tint="@color/red"
    android:viewportHeight="24" android:viewportWidth="24"
    android:width="24dp"
xmlns:android="http://schemas.android.com/apk/res/android">
    <path android:fillColor="@android:color/white"
android:pathData="M18.3,5.71c-0.39,-0.39 -1.02,-0.39 -1.41,0L12,10.59
7.11,5.7c-0.39,-0.39 -1.02,-0.39 -1.41,0 -0.39,0.39 -0.39,1.02
0,1.41L10.59,12 5.7,16.89c-0.39,0.39 -0.39,1.02 0,1.41 0.39,0.39 1.02,0.39
1.41,0L12,13.41l4.89,4.89c0.39,0.39 1.02,0.39 1.41,0 0.39,-0.39 0.39,-1.02
0,-1.41L13.41,12l4.89,-4.89c0.38,-0.38 0.38,-1.02 0,-1.4z"/>
</vector>

```

logoquiz.png



selector_answer_text.xml

```
<?xml version="1.0" encoding="utf-8"?>
<selector xmlns:android="http://schemas.android.com/apk/res/android">
    <!-- Text color for correct answer -->
    <item android:state_checked="true" android:color="@color/green" />
    <!-- Text color for incorrect answer -->
    <item android:state_checked="false" android:color="@color/red" />
</selector>
```

Selector_green.xml

```
<?xml version="1.0" encoding="utf-8"?>
<selector xmlns:android="http://schemas.android.com/apk/res/android">
    <item android:state_pressed="true"
android:drawable="@color/green_pressed"/>
    <item android:state_focused="true"
android:drawable="@color/green_pressed"/>
    <item android:drawable="@color/green_default"/>
</selector>
```

selector_red.xml

```
<?xml version="1.0" encoding="utf-8"?>
<selector xmlns:android="http://schemas.android.com/apk/res/android">
    <item android:state_pressed="true" android:drawable="@color/red_pressed"/>
    <item android:state_focused="true" android:drawable="@color/red_pressed"/>
    <item android:drawable="@color/red_default"/>
</selector>
```

Res

Layout

activity_about.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@color/background"
    android:orientation="vertical"
    tools:context=".AboutActivity">

    <com.google.android.material.appbar.AppBarLayout
        android:id="@+id/appbar"
        android:elevation="0dp"
        android:background="@color/background"
        android:layout_width="match_parent"
        android:layout_height="?attr/actionBarSize">
        <com.google.android.material.appbar.MaterialToolbar
            app:title="About"
            app:titleCentered="true"
            android:layout_width="match_parent"
            android:layout_height="match_parent"/>

    </com.google.android.material.appbar.AppBarLayout>

    <com.google.android.material.card.MaterialCardView
        app:cardBackgroundColor="#B4E4F9"
        app:cardCornerRadius="25dp"
        app:strokeWidth="0dp"
        android:layout_margin="25dp"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">
        <LinearLayout
            android:gravity="center"
            android:orientation="vertical"
            android:layout_width="match_parent"
            android:layout_height="wrap_content">
            <ImageView
                android:src="@drawable/logoquiz"
                android:layout_width="100dp"
                android:layout_height="100dp"
                android:contentDescription="@null"
                android:scaleType="centerCrop"/>
            <TextView
                android:textSize="24sp"
                android:textStyle="bold"
                android:textColor="@color/black"
                android:layout_marginTop="15dp"
                android:text="@string/app_name"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"/>

            <TextView
                android:id="@+id/appVersionTextView"
                android:textSize="16sp"
                android:textColor="@color/black"
                android:layout_marginTop="10dp"
                android:text="@string/app_version_v1_0"

```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>
    </LinearLayout>
</com.google.android.material.card.MaterialCardView>

<com.google.android.material.card.MaterialCardView
    android:id="@+id/developerCard"
    app:cardBackgroundColor="#B4E4F9"
    app:cardCornerRadius="25dp"
    app:strokeWidth="0dp"
    android:layout_marginStart="25dp"
    android:layout_marginEnd="25dp"
    android:layout_marginBottom="25dp"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <LinearLayout
        android:gravity="center"
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <TextView
            android:textSize="20sp"
            android:textStyle="bold"
            android:textColor="@color/black"
            android:layout_marginTop="15dp"
            android:text="@string/developer"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content" />

        <TextView
            android:textSize="16sp"
            android:textColor="@color/black"
            android:layout_marginTop="10dp"
            android:text="@string/amadi"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"/>
    </LinearLayout>
</com.google.android.material.card.MaterialCardView>

<com.google.android.material.card.MaterialCardView
    android:id="@+id/darkMode"
    app:cardBackgroundColor="#B4E4F9"
    app:cardCornerRadius="25dp"
    app:strokeWidth="0dp"
    android:layout_marginStart="25dp"
    android:layout_marginEnd="25dp"
    android:layout_marginBottom="25dp"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <LinearLayout
        android:gravity="center"
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <TextView

```

```

        android:textSize="20sp"
        android:textStyle="bold"
        android:textColor="@color/black"
        android:layout_marginTop="15dp"

        android:text="@string/embark_on_an_enlightening_journey_through_time_with_our_
        _history_quiz_game_delve_into_the_depths_of_the_past_as_you_test_your_knowled
        ge_across_various_epochs_civilizations_and_pivotal_moments_in_human_history_a
        re_you_ready_to_become_a_master_of_the_past_play_now_and_let_the_adventure_be
        gin"

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:padding="16dp"/>

        <!-- Add a switch or button for toggling dark mode -->
    </LinearLayout>
</com.google.android.material.card.MaterialCardView>

</LinearLayout>

```

activity_difficult_quiz.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".DifficultQuiz">

    </androidx.constraintlayout.widget.ConstraintLayout>

```

activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@color/background"
    tools:context=".MainActivity">

    <com.google.android.material.appbar.AppBarLayout
        android:id="@+id/appbarLayout"
        app:statusBarForeground="@color/background"
        android:background="@color/background"
        android:fitsSystemWindows="true"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <com.google.android.material.appbar.MaterialToolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"

```

```

        android:background="#D3C6C6"
        android:elevation="0dp"
        app:title="Quiz"
        app:titleTextColor="@color/red_default" />

</com.google.android.material.appbar.AppBarLayout>

<androidx.core.widget.NestedScrollView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#D3C6C6"
    app:layout_behavior="@string/appbar_scrolling_view_behavior">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background="#D3C6C6"
        android:orientation="vertical"
        android:padding="16dp">

        <!-- Welcome Message TextView -->
        <TextView
            android:id="@+id/welcomeTextView"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center_horizontal"
            android:layout_marginBottom="8dp"
            android:text="Welcome, amadhi"
            android:textColor="@color/black"
            android:textSize="24sp"
            android:textStyle="bold" />

        <!-- Challenge Message TextView -->
        <TextView
            android:id="@+id/challengeTextView"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center_horizontal"
            android:layout_marginBottom="16dp"
            android:text="Let's Challenge your knowledge"
            android:textColor="@color/black"
            android:textSize="18sp" />

        <!-- Image View -->
        <ImageView
            android:id="@+id/historyImageView"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginBottom="16dp"
            android:adjustViewBounds="true"
            android:scaleType="fitXY"
            android:src="@drawable/ic_history" />

        <!-- Easy Quiz Card -->
        <com.google.android.material.card.MaterialCardView
            android:id="@+id/easyCard"
            android:layout_width="match_parent"

```

```

        android:layout_height="wrap_content"
        android:layout_marginBottom="16dp"
        app:cardBackgroundColor="@color/brown"
        app:cardCornerRadius="25dp"
        app:cardElevation="8dp"
        app:strokeWidth="0dp">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:orientation="vertical"
            android:padding="20dp">

            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="Easy Quiz"
                android:textColor="@color/white"
                android:textSize="18sp"
                android:textStyle="bold" />

        </LinearLayout>
    </com.google.android.material.card.MaterialCardView>

    <!-- Difficult Quiz Card -->
    <com.google.android.material.card.MaterialCardView
        android:id="@+id/difficultCard"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="16dp"
        app:cardBackgroundColor="@color/yellow"
        app:cardCornerRadius="25dp"
        app:cardElevation="8dp"
        app:strokeWidth="0dp">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:orientation="vertical"
            android:padding="20dp">

            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="Difficult Quiz"
                android:textColor="@color/white"
                android:textSize="18sp"
                android:textStyle="bold" />

        </LinearLayout>
    </com.google.android.material.card.MaterialCardView>

    <!-- About Card -->
    <com.google.android.material.card.MaterialCardView
        android:id="@+id/aboutCard"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

```

```

        app:cardBackgroundColor="@color/greenbutton"
        app:cardCornerRadius="25dp"
        app:cardElevation="8dp"
        app:strokeWidth="0dp">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:orientation="vertical"
            android:padding="20dp">

            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="About"
                android:textColor="@color/white"
                android:textSize="18sp"
                android:textStyle="bold" />

            </LinearLayout>
        </com.google.android.material.card.MaterialCardView>

    </LinearLayout>
</androidx.core.widget.NestedScrollView>

</androidx.coordinatorlayout.widget.CoordinatorLayout>
activity_questions_items.xml

```

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".QuestionsItems">

</androidx.constraintlayout.widget.ConstraintLayout>
activity_quiz.xml

```

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@color/background"
    android:orientation="vertical"
    tools:context=".BasicQuiz">

    <!-- High Score TextView -->
    <TextView
        android:id="@+id/highScoreTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/high_score_0"
        android:textColor="@color/secondary_text_color"

```



```

        android:textSize="18sp"
        android:layout_marginTop="16dp"
        android:layout_gravity="center"/>

<com.google.android.material.appbar.AppBarLayout
    android:id="@+id/appbar"
    android:elevation="0dp"
    android:gravity="center"
    android:layout_gravity="center"
    android:layout_width="match_parent"
    android:layout_height="?attr/actionBarSize">
    <com.google.android.material.appbar.MaterialToolbar
        app:titleCentered="true"
        app:title="QUIZ"
        app:titleTextColor="@color/red_default"
        android:layout_width="match_parent"
        android:layout_height="match_parent"/>
</com.google.android.material.appbar.AppBarLayout>
<com.google.android.material.card.MaterialCardView
    style="@style/TestCard"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <LinearLayout
        android:layout_gravity="center"
        android:orientation="horizontal"
        android:layout_width="match_parent"
        android:layout_height="150dp">

        <TextView
            android:id="@+id/quizText"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:gravity="center"
            android:padding="25dp"
            android:textColor="@color/black"
            android:textSize="20sp" />

    </LinearLayout>

</com.google.android.material.card.MaterialCardView>

<com.google.android.material.card.MaterialCardView
    style="@style/TestCard"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <LinearLayout
        android:layout_gravity="center"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <TextView
            android:id="@+id/aanswer"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:gravity="center_vertical"
            android:padding="15dp"
            android:textColor="@color/black"
            android:textSize="20sp" />
    </LinearLayout>
</com.google.android.material.card.MaterialCardView>

```

```

        </LinearLayout>

</com.google.android.material.card.MaterialCardView>

<com.google.android.material.card.MaterialCardView
    style="@style/TestCard"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <LinearLayout
        android:layout_gravity="center"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <TextView
            android:id="@+id/banswer"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:gravity="center_vertical"
            android:padding="15dp"
            android:textColor="@color/black"
            android:textSize="20sp" />

    </LinearLayout>

</com.google.android.material.card.MaterialCardView>

<com.google.android.material.card.MaterialCardView
    style="@style/TestCard"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <LinearLayout
        android:layout_gravity="center"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <TextView
            android:id="@+id/canswer"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:gravity="center_vertical"
            android:padding="15dp"
            android:textColor="@color/black"
            android:textSize="20sp" />

    </LinearLayout>

</com.google.android.material.card.MaterialCardView>

<com.google.android.material.card.MaterialCardView
    style="@style/TestCard"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <LinearLayout
        android:layout_gravity="center"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <TextView
            android:id="@+id/danswer"

```

```

        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:gravity="center_vertical"
        android:padding="15dp"
        android:textColor="@color/black"
        android:textSize="20sp" />
    </LinearLayout>

</com.google.android.material.card.MaterialCardView>

<!-- Fun Fact TextView -->
<TextView
    android:id="@+id/funFactTextView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text=""
    android:textColor="@color/black"
    android:textSize="16sp"
    android:layout_marginTop="16dp"
    android:layout_gravity="center"
    android:padding="16dp"
    android:elevation="4dp"
    android:gravity="center"
    android:lineSpacingMultiplier="1.2"/>

```

</LinearLayout>

activity_results.xmls

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@color/background"
    android:orientation="vertical"
    tools:context=".ResultActivity">

    <com.google.android.material.appbar.AppBarLayout
        android:id="@+id/appbar"
        android:elevation="0dp"
        android:background="@color/background"
        android:layout_width="match_parent"
        android:layout_height="?attr/actionBarSize">
        <com.google.android.material.appbar.MaterialToolbar
            app:title="Quiz Result"
            app:titleCentered="true"
            app:titleTextColor="@color/text_color"
            android:layout_width="match_parent"
            android:layout_height="match_parent"/>
    </com.google.android.material.appbar.AppBarLayout>

    <com.google.android.material.card.MaterialCardView
        app:cardBackgroundColor="@color/card_background"
        app:strokeWidth="0dp"

```

```

        app:cardCornerRadius="25dp"
        android:layout_marginEnd="25dp"
        android:layout_marginStart="25dp"
        android:layout_marginTop="25dp"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">
        <LinearLayout
            android:gravity="center"
            android:orientation="vertical"
            android:layout_width="match_parent"
            android:layout_height="150dp">

            <ImageView
                android:id="@+id/resultImage"
                android:src="@drawable/ic_smile"
                android:layout_width="40dp"
                android:layout_height="40dp"/>

            <TextView
                android:id="@+id/highScoreTextView"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:textColor="@color/black"
                android:textSize="13sp"
                android:text="High Score: 0"
                android:layout_marginTop="10dp"
                android:gravity="center"
                android:layout_gravity="center_horizontal"/>

            <TextView
                android:id="@+id/resultInfo"
                android:layout_marginTop="15dp"
                android:textColor="@color/text_color"
                android:textStyle="bold"
                android:textSize="17sp"
                android:text="Result Info"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"/>

            <TextView
                android:id="@+id/resultScore"
                android:textColor="@color/black"
                android:textSize="13sp"
                android:text="Score"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"/>

        </LinearLayout>
    </com.google.android.material.card.MaterialCardView>

    <LinearLayout
        android:orientation="horizontal"
        android:weightSum="2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <com.google.android.material.card.MaterialCardView
            app:cardBackgroundColor="@color/card_background"
            app:strokeWidth="0dp"
            app:cardCornerRadius="25dp"

```

```

        android:layout_marginEnd="10dp"
        android:layout_marginStart="25dp"
        android:layout_marginTop="25dp"
        android:layout_weight="1"
        android:layout_width="0dp"
        android:layout_height="match_parent">
        <LinearLayout
            android:gravity="center"
            android:orientation="vertical"
            android:layout_width="match_parent"
            android:layout_height="150dp">

            <ImageView

                android:src="@drawable/ic_correct"
                android:layout_width="40dp"
                android:layout_height="40dp"/>

            <TextView

                android:layout_marginTop="15dp"
                android:textColor="@color/text_color"
                android:textStyle="bold"
                android:textSize="17sp"
                android:text="Correct"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"/>

            <TextView
                android:id="@+id/correctScore"
                android:textColor="@color/black"
                android:textSize="13sp"
                android:text="0"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"/>

        </LinearLayout>
    </com.google.android.material.card.MaterialCardView>

    <com.google.android.material.card.MaterialCardView
        app:cardBackgroundColor="@color/card_background"
        app:strokeWidth="0dp"
        app:cardCornerRadius="25dp"
        android:layout_marginEnd="25dp"
        android:layout_marginStart="10dp"
        android:layout_marginTop="25dp"
        android:layout_weight="1"
        android:layout_width="0dp"
        android:layout_height="match_parent">
        <LinearLayout
            android:gravity="center"
            android:orientation="vertical"
            android:layout_width="match_parent"
            android:layout_height="150dp">

            <ImageView

                android:src="@drawable/ic_wrong"
                android:layout_width="40dp"
                android:layout_height="40dp"/>

```

```

        <TextView
            android:layout_marginTop="15dp"
            android:textColor="@color/text_color"
            android:textStyle="bold"
            android:textSize="17sp"
            android:text="Wrong"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"/>
        <TextView
            android:id="@+id/wrongScore"
            android:textColor="@color/black"
            android:textSize="13sp"
            android:text="0"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"/>
    </LinearLayout>
</com.google.android.material.card.MaterialCardView>

</LinearLayout>
<com.google.android.material.card.MaterialCardView
    android:id="@+id/returnHome"
    app:cardBackgroundColor="@color/card_background"
    app:strokeWidth="0dp"
    app:cardCornerRadius="25dp"
    android:layout_marginEnd="25dp"
    android:layout_marginStart="25dp"
    android:layout_marginTop="25dp"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="75dp"
        android:background="#BA0707"
        android:gravity="center"
        android:orientation="vertical">

        <TextView
            android:id="@+id/resultTextview"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="15dp"
            android:text="Return to Homepage"
            android:textColor="@color/text_color"
            android:textSize="24sp"
            android:textStyle="bold" />

    </LinearLayout>
</com.google.android.material.card.MaterialCardView>

</LinearLayout>
activity_splash.xml

```

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"

```

```

xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:background="@color/background"
tools:context=".SplashActivity">

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center">
    <ImageView
        android:src="@drawable/logoquiz"
        android:layout_width="100dp"
        android:layout_height="100dp"/>

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:gravity="center"
        android:text="History Quiz"
        android:textColor="@color/black"
        android:textSize="20sp"
        android:textStyle="bold" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

```

Res

Values

colors.xml

```

<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="purple_200">#FFBB86FC</color>
    <color name="purple_500">#FF6200EE</color>
    <color name="purple_700">#FF3700B3</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFFF</color>

    <color name="green_pressed">#00FF00</color>
    <color name="green_default">#00CC00</color>
    <color name="red_pressed">#FF0000</color>
    <color name="red_default">#CC0000</color>

    <color name="green">#37cb95</color>
    <color name="red">#de3c63</color>
    <color name="brown">#904624</color>
    <color name="yellow">#B59F31</color>
    <color name="greenbutton">#027B03</color>

```

```

        <color name="background">#e6f2ff</color>
        <color name="card_background">#e6f2ff</color>
        <color name="text_color">#e6f2ff</color>
        <color name="secondary_text_color">#e6f2ff</color>

    </resources>

```

strings.xml

```

<resources>
    <string name="app_name">My Application</string>
    <string name="app_version_v1_0">App Version v1.0</string>
    <string name="amadi">Amadhi</string>
    <string name="developer">Developer</string>
    <string
name="embark_on_an_enlightening_journey_through_time_with_our_history_quiz_ga
me_delve_into_the_depths_of_the_past_as_you_test_your_knowledge_across_variou
s_epochs_civilizations_and_pivotal_moments_in_human_history_are_you_ready_to_
become_a_master_of_the_past_play_now_and_let_the_adventure_begin">Embark on
an enlightening journey through time with our History Quiz Game! Delve into
the depths of the past as you test your knowledge across various epochs,
civilizations, and pivotal moments in human history.Are you ready to become a
master of the past? Play now and let the adventure begin!</string>
        <string name="high_score_0">High Score: 0</string>
        <string name="exit_quiz_confirmation">Are you sure you want to exit the
quiz?</string>
    </resources>

```

themes.xml

```

<resources xmlns:tools="http://schemas.android.com/tools">
    <!-- Base application theme. -->
    <style name="Base.Theme.MyApplication"
parent="Theme.Material3.DayNight.NoActionBar">
        <item name="colorPrimary">@color/white</item>
        <item name="colorPrimaryVariant">@color/white</item>
        <item name="colorOnPrimary">@color/white</item>

        <item name="colorSecondary">@color/teal_700</item>
        <item name="colorSecondaryVariant">@color/teal_700</item>
        <item name="colorOnSecondary">@color/black</item>
        <item name="colorSecondaryContainer">@color/white</item>

        <item name="android:statusBarColor"
tools:targetApi="1">@color/background</item>
        <item name="android:windowLightStatusBar">true</item>
        <item name="android:navigationBarColor">@color/background</item>
        <item
name="textAppearanceTitleLarge">@style/TextAppearance.Material3.ActionBar.Tit
le</item>
        <item name="materialAlertDialogTheme">@style/AlertDialog</item>
    </style>

```



```

        <style name="AlertDialog"
parent="ThemeOverlay.Material3.MaterialAlertDialog.Centered">
    <item name="colorPrimary">@color/card_background</item>
    <item name="colorOnSecondary">@color/black</item>
    <item name="android:background">@color/card_background</item>
    <item name="android:gravity">center</item>
    <item
name="buttonBarPositiveButtonStyle">@style/PositiveButtonStyle</item>
    <item
name="buttonBarNegativeButtonStyle">@style/NegativeButtonStyle</item>
</style>

    <style name="PositiveButtonStyle"
parent="Widget.MaterialComponents.Button.TextButton">
    <item name="android:textColor">@color/text_color</item>
    <item name="android:textStyle">normal</item>
    <item name="textAllCaps">false</item>
</style>

    <style name="NegativeButtonStyle"
parent="Widget.MaterialComponents.Button.TextButton.Dialog">
    <item name="android:textColor">@color/text_color</item>
    <item name="textAllCaps">false</item>
</style>

    <style name="TestCard">
    <item name="cardCornerRadius">10dp</item>
    <item name="cardElevation">5dp</item>
    <item name="android:layout_marginLeft">25dp</item>
    <item name="android:layout_marginRight">25dp</item>
    <item name="android:layout_marginTop">5dp</item>
    <item name="android:layout_marginBottom">5dp</item>
    <item name="strokeWidth">0dp</item>
</style>

    <style name="Theme.MyApplication" parent="Base.Theme.MyApplication" />
</resources>

```

themes.xml(night)

```

<resources xmlns:tools="http://schemas.android.com/tools">
    <!-- Base application theme. -->
    <style name="Base.Theme.MyApplication"
parent="Theme.Material3.DayNight.NoActionBar">
        <!-- Customize your dark theme here. -->
        <!-- <item name="colorPrimary">@color/my_dark_primary</item> -->
    </style>
</resources>

```

Res

#i haven't add mipmap and xml folder since it's the default

