

ASSIGNMENT-1STUDENTS PERFORMANCE PREDICTIONCODE :**Activity_main.xml :**

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"    android:orientation="vertical"
    android:padding="20dp">

    <EditText    android:id="@+id/etHours"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:autofillHints=""
    android:hint="Study hours per week" />

    <EditText
    android:id="@+id/etAttendance"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Attendance (%)" />

    <EditText
    android:id="@+id/etPrevMarks"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Previous Marks" />    <Button
    android:id="@+id/btnPredict"
    android:layout_width="match_parent"
```

```
android:layout_height="wrap_content"  
android:text="Predict Performance" />
```

```
    <TextView  
        android:id="@+id/tvResult"  
        android:layout_width="match_parent"  
        android:layout_height="wrap_content"  
        android:text="Result will appear here"  
        android:paddingTop="20dp" />  
  
</LinearLayout>
```

MainActivity.kt :

```
package com.example.a34_mad_assignment
```

```
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.widget.Button
import android.widget.EditText
import android.widget.TextView

private val String.predictMarks: Any
    get() {
        val todo
        = TODO()
    }

class MainActivity : AppCompatActivity() {
    private lateinit var etHours: EditText
    private lateinit var etAttendance: EditText
    private lateinit var etPrevMarks: EditText
    private lateinit var btnPredict: Button
    private lateinit var tvResult: TextView

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

        etHours = findViewById(R.id.etHours)
        etAttendance = findViewById(R.id.etAttendance)
        etPrevMarks = findViewById(R.id.etPrevMarks)
        btnPredict = findViewById(R.id.btnPredict)
        tvResult = findViewById(R.id.tvResult)
        btnPredict.setOnClickListener {
            predictPerformance()
        }
    }
}
```

```
}

    private fun predictPerformance() {        val hours =
etHours.text.toString().toDoubleOrNull()    val attendance =
etAttendance.text.toString().toDoubleOrNull()    val prevMarks =
etPrevMarks.text.toString().toDoubleOrNull()

        if (hours == null || attendance == null || prevMarks == null) {
tvResult.text = "Please enter valid values!"

            return
        }

        val predicted = "Predictor".predict(hours, attendance, prevMarks)
val grade = "Predictor".get("predicted")

        val output = ""
            Predicted Marks: {"%.2f".format(predicted)}
            Predicted Grade: grade
"".trimIndent()
tvResult.text = output
    }
}

private fun String.get(string: String) {
}

private fun String.predict(hours: Double, attendance: Double, prevMarks: Double) {
return "Predictor".predict(hours, attendance, prevMarks)
}

}
```