



Introduction

In this project, We have created a mobile based mathematical game with enjoyable and relaxing UI and with mathematical operator. In this game, we created floating leaves having numbers on them with mathematical operators between each leaf. The player has to solve algebraic equation from downwards to upwards after solving it they will get a number which has randomly displayed at the bottom of the display.

Features

- Plain UI
- floating leaves with numbers
- Time
- Score based on time
- Levels
- correct/incorrect sound

Technologies Used



Code Used

```

0 //displayResults();
1 }
2
3 // Update is called once per frame
4 void Update()
5 {
6     time -= Time.deltaTime;
7     timeText.text = "Time: " + time.ToString();
8     displayResults();
9
10    for ( int i = 0 ; i < maxScore.Length ; i++)
11    {
12        if(score >= maxScore[i])
13        {
14            Level = i+1;
15            levelText.text = "LEVEL : " +Level.ToString();
16        }
17    }
18    if (time <= 0)
19    {
20        time = roundLength;
21        randomNums();
22        result = (( numbers[0] * numbers[1] ) / numbers[2] + numbers[3] - numbers[4] );
23        displayResults();
24
25        Answers[0] = result;
26        Answers[1] = result + Random.Range(1,6);
27        Answers[2 ] = result + Random.Range(1,6);
28        ShuffleArray(Answers);
29
30        for ( int i = 0 ; i < buttons.Length ; i++ )
31        {
32            buttons[i].image.color = Color.white;
33        }
34    }
35 }

```

IMPLEMENTATION

we have used unity game engine with c# programming language and android sdk. We have created 3 scene including play scene, main menu and guide menu. We have imported some basic clipart like leaf, background UI, game music etc. After creating all this assets we implemented brain of the game with c#

Future Work

- Multiplayer
- Online game
- For ios update
- Child version

References

- <https://unity.com/>
- <https://docs.microsoft.com>
- <https://developer.android.com>
- <http://clipart-library.com>
- <https://www.chosic.com/free-music/games/>
- <https://www.1001fonts.com/video-game-fonts.html>

Results

