DEPARTMENT NAME : CSE(AI/ML)
Mini project assessment topic:-py-piano

Supervisor Name:-

Mr. Abhay Jain

Presented by:-

Avantika

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Objective:-

The purpose of this report is to be used as a guide to assist the user in getting familiar with how to design a "**piano**" using python programming language and to enable the user to play piano keys on their digital devices easily.

Piano is a musical instrument that you play by pressing black and white keys on a keyboard.

Piano comes from the original Italian name for the instrument: **piano e forte**, "**soft and loud**"

There are twelve possible keys any particular song can be played in. These are A, A#/Bb, B, C, C#/Db, D, D#/Eb, E, F, F#/Gb, G, and G#/Ab.

Need and Scope:-

1. Playing piano offers different physical and physiological advantages to players .

2. Piano helps people to relief their stress .

3. Piano helps to sharpen the concentration skills of people .

4. Playing the piano is good for the physical health .

5. It improves test scores and the school performance of a student .

6. Swimmers generally listen soft music to enhance their performance . Thus,   piano can play an important role in such case .

7. Studies show that students who plays piano had increased levels of HgH (Human Growth Hormones) in their system .

8. Playing the piano can improve your overall aural awareness no matter where you fall in the range .

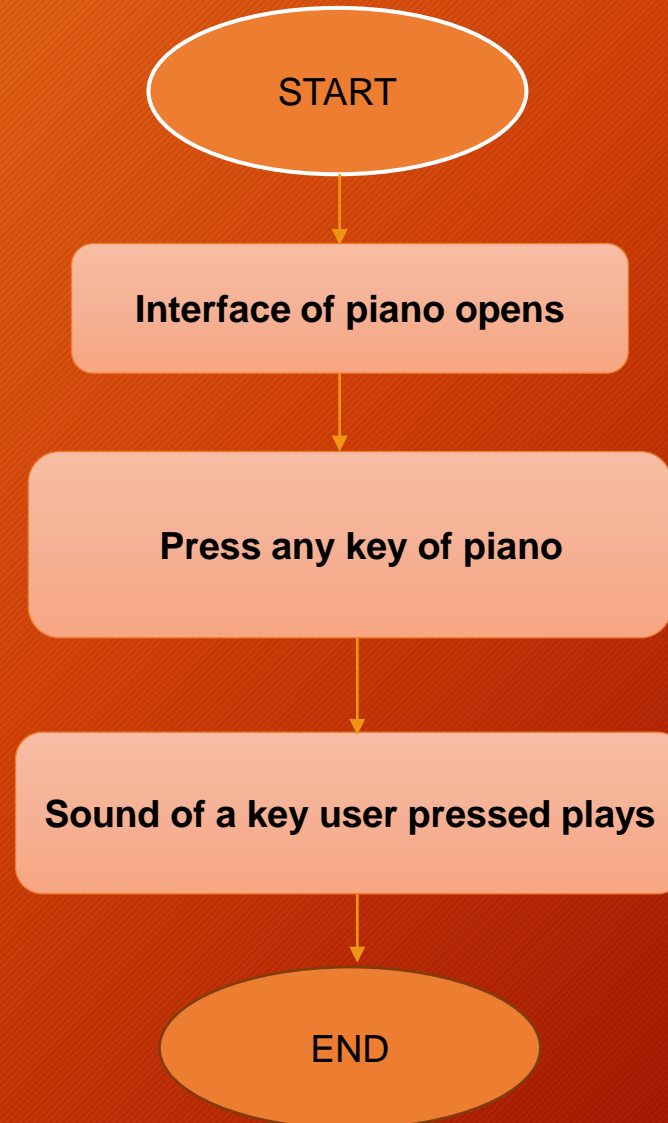9. Playing piano increases the creativity of human being.

Methodology:-

Here, I have design a piano by using python programming language.

The methodology used in this project is to enable the user to play the piano keys on their digital device so that they can practice the piano anytime and anywhere.

whenever user presses the any of the key, the sound of that particular key plays.

Workflow of project

START

↓

Interface of piano opens

↓

Press any key of piano

↓

Sound of a key user pressed plays

↓

END

Technology Bucket:-

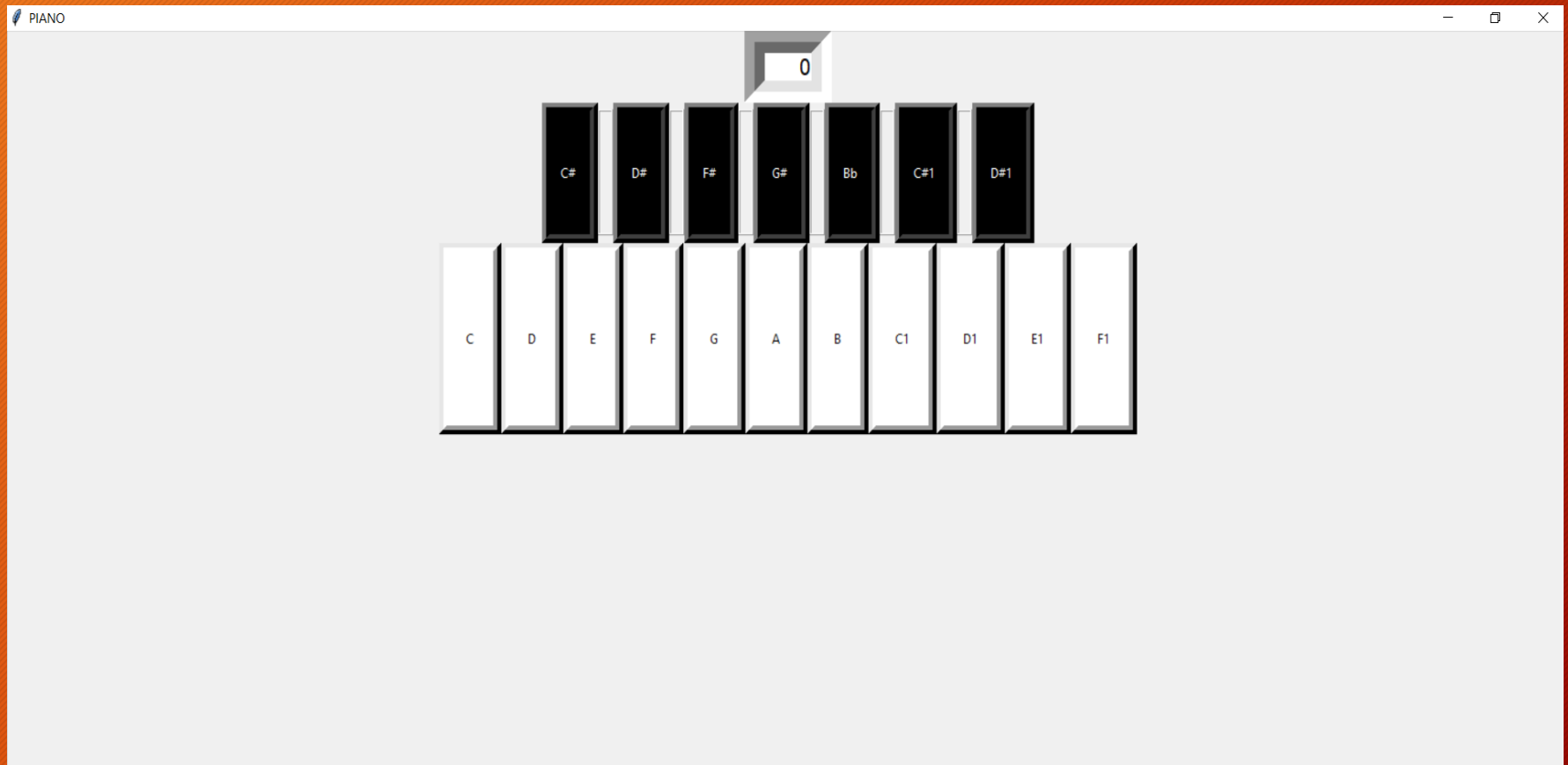I have implemented this project by using world's most popular programming language:

PYTHON

Description of Technology used:-

1. The python language is world's most popular programing language.
2. Python is a general - purpose programming language.
3. Python is high-level programming language.
4. It is easy to use and simple to implement because the **syntax of the python programming language is very easy**.
5. Python programming language is considered as scripting language.
6. Python programming language often used to build websites and software, automatic tasks and conduct data analysis.
7. Python is one of the fastest growing language.

The most wanted top programming languages

Language	Percentage
Python	30.0%
JavaScript	18.5%
Go	17.9%
TypeScript	17.0%
Rust	14.6%
Kotlin	12.6%
Java	8.8%
C++	8.6%
SQL	8.2%
C#	7.3%

Outcome:-

References:-

- Website:- https://www.w3schools.com/
- Youtube:- https://youtu.be/gfDE2a7MKjA
- Sound :- https://freesound.org/people/Tesabob2001/packs/12995/
- Wikipedia
- And even some other references too.