

Project Report

Rock Paper Scissors Game:

Rock paper scissors game is also known as stone paper scissors. It is a hand game that is usually played between 2 people, each player can randomly form any one of three from their hand.

A player who chooses rock will win by another player who chooses scissors but loose by the player who chooses paper; a player with paper will loose by the player with the scissors.

Meaning of Project Report :

The object of the rock-paper-scissor python project is to build a game for a single player that plays with a computer, anywhere, and anytime. This project is base on the rules that:

- 1.rock blunts scissors so rock wins
- 2.scissors cut the paper so scissors win
- 3.paper cover rock so paper wins

This project is build using random modules, and the basic concept of python.

In this python project, players have to choose any one from rock, paper, and scissors. Then click on the play button will show the result of the game.

Contents of a Project Report:

1. Importing Libraries

The first step is to import libraries. Here, we required two modules so we need to import Tkinter and random modules.

2. Initialize Window

- **Tk()** use to initialized Tkinter to create window
- **geometry()** sets the window width and height
- **resizable(0,0)** by this command we can fix the size of the window
- **title()** used to set the title of the window
- **bg = "** use to set the color of the background

3. For User Choice

- **user_take** is a string type variable that stores the choice that the user enters.

- **Entry()** widget used when we want to create an input text field.

4. For Computer Choice

Here we give the if-else() condition to play rock paper scissors

- If the computer choose 1 then the rock will set to comp_pick variable
- If the computer choose 2 then the paper will set to comp_pick variable
- If the computer choose 3 then scissors will set to comp_pick variable

Define Buttons

- **Button()** widget used when we want to display a button.
- **command** called the specific function when the button will be clicked.
- **root.mainloop()** method executes when we run our program.

Following are the contents of a project report:

Prerequisites

To implement this python rock paper scissors project we will use the basic concept of python with tkinter and random module.

- **Tkinter** is a standard GUI library which is one of the easiest ways to build a GUI application.
- **random** module use to generate random numbers

Project File Structure

These are the step to build a rock-paper-scissors game using python:

- Import required libraries
- Initialize window
- Code for user choice
- Code for computer choice
- Define functions
- Define buttons

Summary

we have successfully developed the rock-paper-scissors game using python. We used Tkinter library for rendering graphics. We use a random module to generate random choices. We learn how to create button widget. We also learn how to call the function using button. In this way, we created a rock-paper-scissors python game.

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