



Dear Participant,

Welcome to the second stage of **Python Development** track of Spectrum Internship Drive. As you have completed the Task 1, hope you must be comfortable and have a good knowledge of Basic python.

Welcome to the **Stage 2.**

This stage will introduce you to one of the most famous library of python. As you progress the difficulty level keeps on increasing. So check the resources, learn thoroughly and then proceed on to do the task.

Hope you all enjoy doing the task and wish you good luck.

TASK 2:

Prerequisites:

- python
- Basic knowledge on tkinter

Task scenario:

It is just like any other evening time. You are in your friend, Sheldon's apartment with some of your friends and all of you decide to watch a show. But one major issue persists. You and your friends are unable to figure out what show to watch. Everyone is confused and demanded, all should watch the show they recommend. Soon a quarrel breaks out and the evening is ruined. You being the wisest among all and a veteran python developer decide to solve this issue.

You thought to use Tkinter - a standard Graphical User Interface (GUI) for Python to create a game. The game will be an unique variation to the traditional Rock-paper-scissors game. Rather this game will have two other moves i.e. lizard and spock. Each your friends will take turns to play against the computer and their highest score before they lose three times will be taken into account. All of your friends agree to this and the evening is saved.

Task explanation:

You have to create a **GUI** (Graphical User Interface) application using **tkinter**. This application will have **3 windows**.

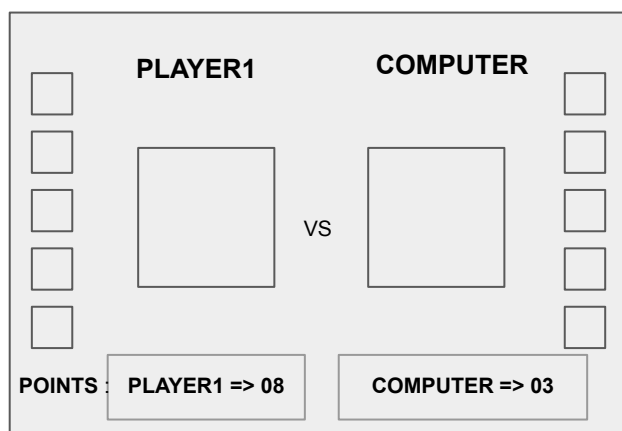
Window 1: This will be the start window where the player will enter his name. And hit **START!** When the player hits start this window will close And the game window i.e window 2 will open.



THE GAME OF
CHANCES

Enter name : PLAYER1

START!



PLAYER1 vs COMPUTER

POINTS: PLAYER1 => 08 COMPUTER => 03

Window 2: You have to add buttons each for **rock, paper, scissors, lizard and spock..** Images for each can also be added. For each round first the player **selects an action** by clicking on any one of the rock, paper, scissors, lizard or spark button, after that the computer will **randomly select an action** and both will be evaluated. The winner gets a point and the game ends when the player loses three times.

Window 3: It will show the **player score** and will have a button to **start a new game** and **exit**. On clicking start a new game, **window 3** will close and **window 1** will open and exit will close all window and program stops.



PLAYER1 SCORE: 08

EXIT **START NEW GAME!**

Resources:

Setup:-

1. Tkinter :- [How to install Tkinter in Python?](#)

Reading:

- Tkinter: [Python Tkinter Tutorial](#)
- Rock Paper Scissor Game for your reference:
[Rock Paper and Scissor Game Using Tkinter](#)

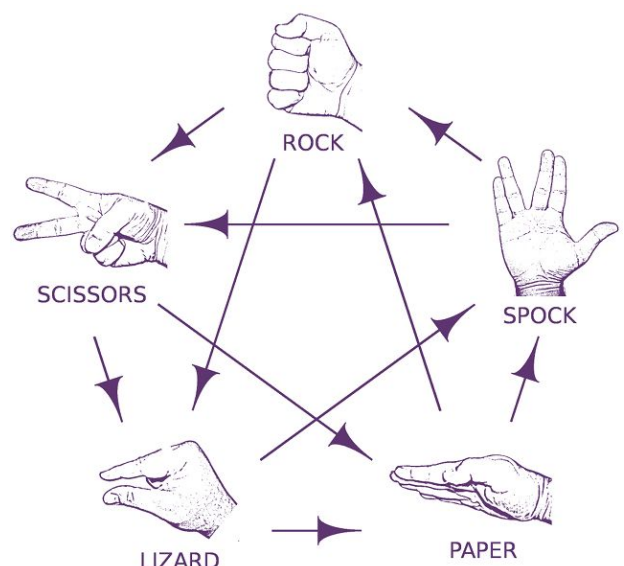
Watching:

1. [Tkinter Python Tutorial | Python GUI Programming Using Tkinter Tutorial](#)
2. [Tkinter Course - Create Graphic User Interfaces in Python Tutorial](#)
3. [Rock Paper and Scissor Game Using Python Tkinter](#)

Reference Image for logic:

EVALUATION BASIS:

Scissors cuts Paper
Paper covers Rock
Rock crushes Lizard
Lizard poisons Spock
Spock smashes Scissors
Scissors decapitates Lizard
Lizard eats Paper
Paper disproves Spock
Spock vaporizes Rock
(and as it always has) Rock crushes Scissors





Submission Guidelines:-

The above tasks are to be submitted by:

- **Files to be submitted:-**

1. Your python file
2. Screen Recorded video of the output of maximum 2 - 3 minutes.

Create a Folder named as "**your name_Pydev_task2**" For eg.- "Sam_Pydev_task2" , keep the above two files in that folder and then upload the folder into Google Drive. Then right click on the uploaded folder, click Share, then click on "**Change to anyone with the link**", then Copy Link, and submit that link in the Dashboard.

Note:- Read the Submission instruction properly and share the drive link which can be accessed.

In case of any confusion or queries, you can drop a text in the Python Development group in Telegram which you would have joined by now. Or if you haven't joined, log in to your dashboard at <https://internship.spectrumcet.com> , and click on the bottom right telegram button.

LAST DATE OF SUBMISSION:

11/07/2021 , 11:59 pm.

Warm regards,

SPECTRUM, CET-B