IP Project

A project by:
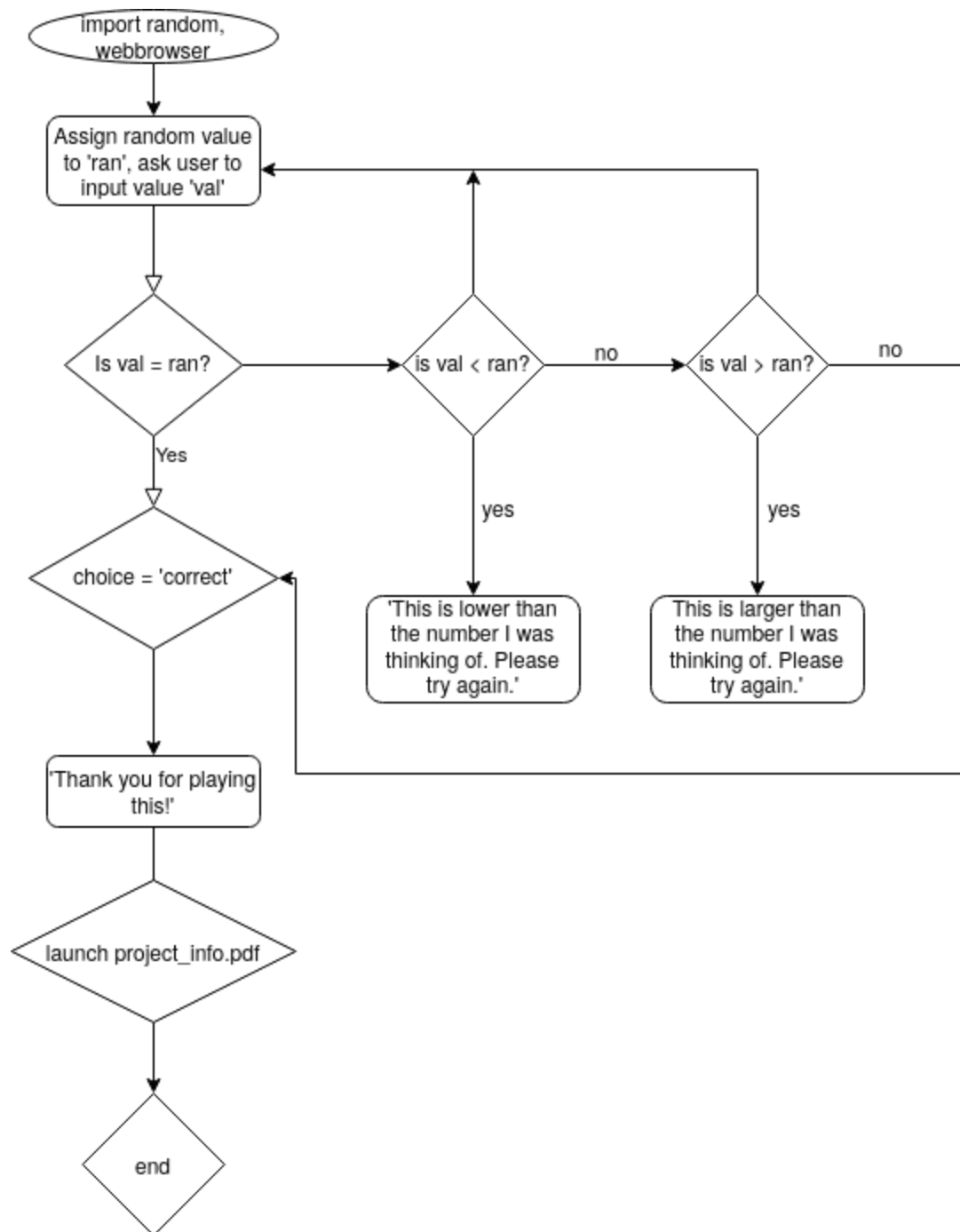Siddharth & Adhishri, 12D

Introduction

This project uses Python. Python is an interpreted, high-level and general-purpose programming language. Created by Guido van Rossum and first released in 1991, Python's design philosophy emphasizes code readability with its notable use of significant whitespace.

Modules used:
random
webbrowser

Objective

How it works

The code assigns a random value to variable 'ran' using the random module. The user is then asked to enter a value of their choice between 1 and 100. The value entered is assigned to var 'val'. If 'val' is greater than 'ran', the code prints out saying that the number is greater than the one entered, and vice versa. When the user finally gets the number right, it prints out saying that the number is right and that the game has finished. The code will then launch project_info.pdf (this file) using the webbrowser module.

```
                    ┌───────────────────┐
                    │  import random,   │
                    │    webbrowser     │
                    └───────────────────┘
                             │
                             ▼
              ┌──────────────────────────┐
              │   Assign random value    │◄──────────────────────────┐
              │   to 'ran', ask user to  │                           │
              │     input value 'val'    │                           │
              └──────────────────────────┘                           │
                             │                                       │
                             ▼                                       │
                      ◇ Is val = ran? ◇ ──────► ◇ is val < ran? ◇ ──no──► ◇ is val > ran? ◇ ──no──┐
                             │                          │                        │               │
                            Yes                        yes                      yes              │
                             │                          │                        │               │
                             ▼                          ▼                        ▼               │
                  ◇ choice = 'correct' ◇        ┌──────────────┐         ┌──────────────┐        │
                             │                  │ 'This is lower│         │ This is larger│       │
                             │                  │ than the      │         │ than the      │       │
                             │                  │ number I was  │         │ number I was  │       │
                             │                  │ thinking of.  │         │ thinking of.  │       │
                             │                  │ Please try    │         │ Please try    │       │
                             │                  │ again.'       │         │ again.'       │       │
                             ▼                  └──────────────┘         └──────────────┘        │
                  ┌────────────────────┐                                                          │
                  │ 'Thank you for     │◄─────────────────────────────────────────────────────────┘
                  │  playing this!'    │
                  └────────────────────┘
                             │
                             ▼
                  ◇ launch project_info.pdf ◇
                             │
                             ▼
                         ◇ end ◇
```

System requirements

OS: Must be able to boot successfully
RAM: Above 516 MB
GPU: Not required
CPU: Must exist
Look, even Grandma Ivanka's PC from the Soviet Era will be able to run this. Don't worry.