

Department of Computer Science & Engineering

# Python for Computational Problem Solving

# Mastermind Project Synopsis

Date:

TITLE: MASTERMIND

Objectives: The program is made to recreate the board game mastermind

Description:

* Mastermind is a board game which requires 2 players
* One of the players will set a certain sequence of colors and the other player will have to guess the colors in the same order
* The player guessing will only have a certain number of guesses after which the player who set the colors will win the game
* To aid the player who is guessing the number of correct colors and the number of correct positions will be revealed without revealing the name of the colors
* The player who has set the colors cannot change them during the game, this can only happen at the beginning of a new game
* The colors will be selected only from a specified provided set of colors

Outcome:

A working simulation of the game without the implementation of GUI

Structure of I/O:

Both the input and output will be taken and given respectively in the terminal of the code itself.

Computer Version:

In this version only the player will only be able to guess and not set any colors as he is playing against the computer. He will be requested to enter 1 color at a time for a specific position

Player Version:

In this version the player will be able to set the colors in a specified position and the player will be able to guess the colors when the terminal requests him to enter 1 color for a position at a time

Python Modules:

1. Random – This was used to randomly select a color from the given set of colors
2. Getpass – This was used to hide the entry of the first player during the player version

Current Status of Implementation:

In Progress

Team Details:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Name** | **SRN** | **Signature of Student** | **Remarks by Faculty** |
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