

## Assignment 2 Design

BY 1686498

Player
String moves – stores players moves
Void setMoves – sets players moves string getMoves – returns players moves

- The users input will get taken into setMoves and only the moves will be stored in moves
- setMoves will remove the first 2 characters which will be a number and a space and then copy from there until the end
- It will check first though to make sure that the string contains something
- getMoves will return the string of moves

Computer
String move – stores computers move
String getMove – returns computers move

- Move will store rock for this program cause the computer is dumb
- getMove will return the move rock

Referee
Void playGame – Takes in a player and computer and decides who wins by comparing their moves

- playGame will take in who is playing and decide who wins
- It then prints out win,lose or tie depending on how the player went

GameCont
Int numberOfGames – stores the number of games
Void play – Takes in the all the players playing void setNumberOfGames – take the users input and set the number of games int getNumberOfGames – will return the number of games

- numberOfGames will will store the amount of games wanting to be played by the player
- setNumberOfGames will convert the users input to an int and store it in numberOfGames
- getNumberOfGames will return the number of games wanting to be played
- play will take in all players playing and will call the referee function playGame inside of it

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### Main:

- Will take input from users
- will initialise all classes
- will set the number of games and players moves
- it will then call the play function in GameCont

### Testing:

I will test for some different samples of inputs

Input 1:

0

Output 1:

Input 1:

1 R

Output 1:

T

Input 1:

1 P

Output 1:

W

Input 1:

1 S

Output 1:

L

Input 1:

3 S P R

Output 1:

L W T

Input 1:

4 R R P S

Output 1:

T T W L

Input 1:

2RS

Output 1:

Enter moves with a space inbetween in the form of k, followed by k moves with a space inbetween

Input 1:

-1

Output 1:

Input 1:

Output 1: