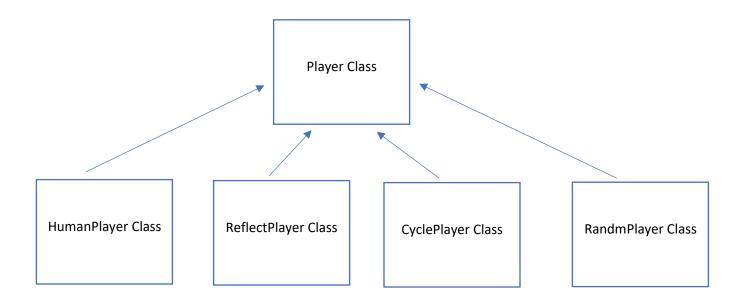
Tips for Project 2 (Rock, Paper, Scissors):

1. You have a parent class (Player), you need to implement sub classes (RandomPlayer, HumanPlayer, CyclePlayer, ReflectPlayer)



Player Class: (Already available in the starter code, and you don't need to modify it)

- Plays always "Rock"
- Function move (always returns "Rock")

HumanPlayer Class: (Sub class of Player class):

- Function move (returns a user input move)
- Don't forget to validate the input user, the available moves are only (Rock, Paper or scissors)

RandomPlayer Class: (Sub class of Player class):

 Function move (returns a random choice from the list moves [Rock, Paper or scissors]) CyclePlayer class: (Sub class of Player class):

- Function move:
  - o If this is the first move (**returns** random or any other move)
  - If not the first move (using function learn it will remember what move played last round, and cycles through the different moves. (If it played 'rock' this round, it will return 'paper' in the next round.)
- Function learn:
  - Will keep track (save) of the moves of both players

ReflectPlayer Class: (Sub class Player class):

- Function move:
  - o If this is the first move (returns random or any other move)
  - If not the first move (using function learn it will remember what the opponent last move and plays that move this round) if you play 'paper' on the first round, a ReflectPlayer will play 'paper' on the second round.)
- Function learn:
  - Will keep track (save) of the moves of both players

## 2. Class Game:

The players' score and the number of rounds played, should be stored as instance variables.

- play\_round function:
  - Use function beats to check who is the winner.
  - o Don't forget to handle the **Tie**
  - Use players' score to keep track of the winner in each round to calculate the winner of the game
  - o Announce the winner of this round.
- play\_game function:
  - The number of rounds per game, as well as when to stop, are up to you, you can also use 'quit' to terminate the game
  - Using the players' score announce the winner.

## 3. if \_\_name\_\_ == '\_\_main\_\_':

- o In this part You should display a welcome message.
- o Input the type of player the user wants to play with [Random, Reflect, Repeat (always plays rock), or Cycle]
- Don't forget the input validation.
- For each choice you will create an if condition to handle the user choice [Random, Reflect, Repeat (always plays rock), or Cycle] then and starts the game with Humanplayer and the user choice.

For example, if the user choose "Random" you will start the game as following game = Game (HumanPlayer(), RandomPlayer())