AP Computer Science Principles Aim: SWBAT create a game of Rocks Paper Scissors using Java.

Do Now: See Think Wonder

In your notebook,

- List 3 things that you notice in the following assignment.
- List 2 things you think you need to do to complete this assignment.
- List 1 thing that you wonder about when analyzing this problem.

AP Computer Science Principles Introduction to Python

Project 2: Create a Rock Paper Scissors Game

For this project, you will use Python to create a Rock Paper Scissors Game. The computer will randomly pick Rock, Paper, or Scissors for itself and will ask the player for their selection of Rock, Paper, or Scissors.

- 1. The Basic version of the game should include the following:
- The computer randomly picks a number from 1 3 (1 for Rock, 2 for Paper, 3 for Scissors)
- The computer asks the player to enter 1, 2 or 3 (1 for Rock, 2 for Paper, 3 for Scissors)
- · The computer checks to determine the winner of the round
 - o If the player and the computer pick the same, the round is a draw
 - o Rock beats Scissors
 - Scissors beats Paper
 - o Paper beats Rock
- The computer outputs the computer's choice, the player's choice, and the result of the round (Player wins, Computer wins, or Draw)
- 2. For the Intermediate version of the game add the following to the Basic version:
- . The game is Best of 3:
 - o For each round, the computer outputs result as in the Basic version
 - When either the Computer or the Player has won 2 rounds, the computer outputs the winner of the match
- 3. For the Advanced version of the game add the following to the Intermediate version:
- The player specifies the number of rounds needed to win:
 - o The computer asks the player how many rounds are needed to win
 - For each round, the computer outputs the result as in the Basic and Intermediate versions
 - When either the Computer or the Player has won the match, the computer outputs the winner of the match and how many rounds the winner has won

Activity - 2 Days

AP Computer Science Principles Introduction to Python

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