

Write a program that asks the user to enter a number. The program should decide whether the number is to be assigned to Rock or Paper or Scissors and inform the user. You will need to use a while loop, if statements and the remainder operator % to write this program.

The Rock Paper Scissors Game

Rock Paper Scissors is a hand game that can be played by two or more people, where the three items in question are represented with hand gestures. The objective of the game is to select a hand gesture which defeats that of the opponent.

The rules that govern this are as follows:

- Rock beats scissors.
- Scissor beats paper.
- Paper beats rock.

Based on the above rules and using the following pseudocode, write a program called RockPaperScissors.py that plays a simple game of Rock Paper Scissors against the computer.

- Print the title "The Rock Paper Scissors Game".
- Set the variable rock to be 1, the variable paper to be 2 and the variable scissors to be 3.
- Set the user's input to be 0.

While the user has not entered -1:

- Ask to user to enter 1 to choose rock, 2 to choose paper, 3 to choose scissors or -1 to quit the game.
- Randomly assign rock, paper or scissors as the computer's choice by generating a random number between 1 and 3 and assigning it to a

variable named computer choice.

If the user has not entered -1:

- * If the user has chosen rock:

- Print "You chose rock"

- * If the user has chosen paper:

- Print "You chose paper"

- * If the user has chosen scissors:

- Print "You chose scissors"

- * Repeat the previous 3 steps for the computer printing "The computer chose" followed by the computer selection.

- * If the user wins:

- Print "Congratulations you win!"

- * If the computer wins:

- Print "Sorry you lose!"

- * If the user and the computer make the same selection:

- Print "The match was a tie!"

- Print "Goodbye"

*** Reminder -You will need to use a while loop and some if statements to complete this program.

Hint:

Way to use while True: <https://www.geeksforgeeks.org/how-to-use-while-true-in-python/>

A Sample Run/ Expected Output

The Rock Paper Scissors Game

Please enter 1 for rock, 2 for paper,

3 for scissors or -1 to quit: 1

You chose rock

The computer chose scissors

Congratulations you win!

Please enter 1 for rock, 2 for paper,

3 for scissors or -1 to quit: 3

You chose scissors

The computer chose scissors

The match was a tie!

Please enter 1 for rock, 2 for paper,

3 for scissors or -1 to quit: -1

Goodbye

You will need to use a while loop and some if statements to complete this program.