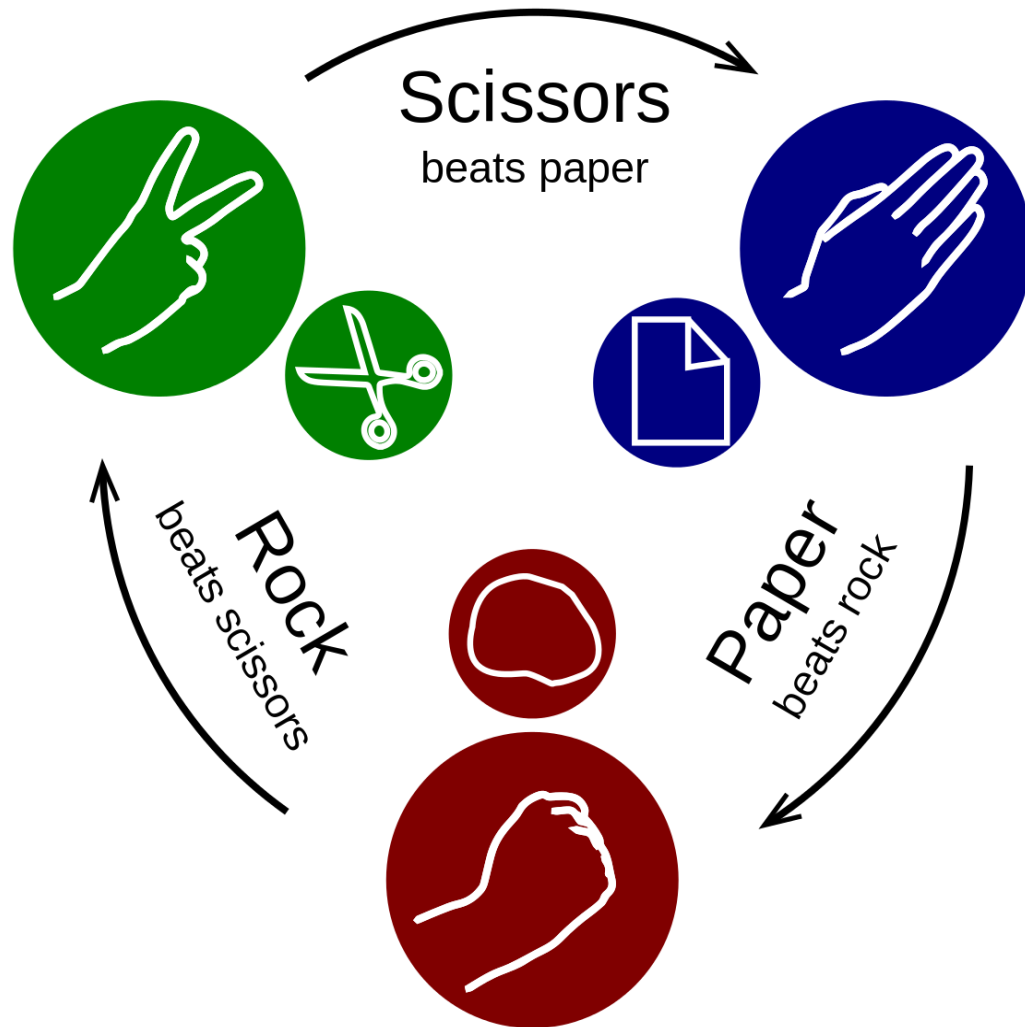# Take Home Program 6
Rock Paper Scissor Game

Rock-Paper-Scissors Game

Rules of games:

- Rock crushes Scissors
- Scissors cuts Paper.
- Paper covers Rocks.

Rock-Paper-Scissors Game Program

➢ **Version 1 – 10 points - I**nput validation is not required.

▪ No syntax, logic or runtime errors.

▪ Your program should be readable, well comments and organized.

➢ **Version 2 – 15 points -** Input validation is required.

▪ Validate user input for each of repeated loop.

▪ Accept lower case, upper case.

▪ Not accept numbers, punctuations or symbol characters.

▪ No syntax, logic or runtime errors.

▪ Your program should be readable, well comments and organized.

```
***** Your name's Rock-Paper-Scissor Game *****
(version 1 - no input validation)

My name is GameBot, what is your name? Birdy

Choose a hand to play:
 Type R for rock, P for Paper, or S for Scissors.
 When you want to stop, type E for End instead.
 Your choice: 4

        You picked 4. I picked S.

Choose a hand to play:
 Type R for rock, P for Paper, or S for Scissors.
 When you want to stop, type E for End instead.
 Your choice: R

        You picked R. I picked S.
        Birdy, YOU WIN!!!!

Choose a hand to play:
 Type R for rock, P for Paper, or S for Scissors.
 When you want to stop, type E for End instead.

 Your choice: P
        You picked P. I picked S.
        I win! HAHAHAHA!!!
```

```
Choose a hand to play:
 Type R for rock, P for Paper, or S for Scissors.
 When you want to stop, type E for End instead.

 Your choice: P
        You picked P. I picked S.
        I win! HAHAHAHA!!!
Choose a hand to play:
 Type R for rock, P for Paper, or S for Scissors.
 When you want to stop, type E for End instead.

Your choice: P
        You picked P. I picked P.
        We are tied. No winner. Try again.
Choose a hand to play:
 Type R for rock, P for Paper, or S for Scissors.
 When you want to stop, type E for End instead.

 Your choice: E

        Thank you for playing, Birdy.
        You won 1 hands.
        I won 2 hands.
        I win the game! I am clearly the better player. Nyah, nyah!
Press any key to continue . . .
```

```
***** Your name's Rock-Paper-Scissor Game *****
(Version 2 - Input validation for each repeated loop.)

My name is GameBot, what is your name? Susie

Choose a hand to play:
 Type R for rock, P for Paper, or S for Scissors.
 When you want to stop, type E for End instead.
 Your choice: @
      Your input must be one of the characters (R, P, S or E).

Choose a hand to play:
 Type R for rock, P for Paper, or S for Scissors.
 When you want to stop, type E for End instead.
 Your choice: r
        You picked r. I picked S.
        Susie, YOU WIN!!!!

Choose a hand to play:
 Type R for rock, P for Paper, or S for Scissors.
 When you want to stop, type E for End instead.
 Your choice: p

        You picked p.  I picked S.
        I win! HAHAHAHA!!
```

```
Choose a hand to play:
 Type R for rock, P for Paper, or S for Scissors.
 When you want to stop, type E for End instead.
 Your choice: 4


      Your input must be one the characters (R, P, S or E).

Choose a hand to play:
 Type R for rock, P for Paper, or S for Scissors.
 When you want to stop, type E for End instead.
 Your choice: e

Thank you for playing, Susie.
        You won 1 hands.
        I won 1 hands.
        We tied. There is no winner.


Press any key to continue . . .
```

Objectives and Hints

Objectives: while loop, switch statements

➢Use while loop to control the user selection R, P, S or E

➢Use rand() function to generate the computer selection (0, 1, 3)

➢Use switch statements to control computer's move

➢Use nested switch statements or if / if else statements to determine the winner.

➢Make sure to setup counters to count the winning numbers of the player and the computer.

More Instructions

```
***** Your name's Rock-Paper-Scissor Game *****
(Version 2 - Input validation for each repeated loop.)


        ***** Your name's Rock-Paper-Scissor Game *****
        (version 1 - no input validation)
```

- Your program should NOT say Your name's .It should be replaced with your first name.

Good Luck!