**ASSIGNMENT 4**

Sol:

#include <stdio.h>

#include <stdlib.h>

int main() {

int userChoice;

int computerChoice;

const char \*choices[] = {"Rock", "Paper", "Scissors"};

printf("Enter your choice:\n");

printf("0: Rock\n");

printf("1: Paper\n");

printf("2: Scissors\n");

printf("Your choice: ");

scanf("%d", &userChoice);

if (userChoice < 0 || userChoice > 2) {

printf("Invalid choice! Please enter 0, 1, or 2.\n");

return 1;

}

int randomNum = rand() % 100;

if (randomNum < 33) {

computerChoice = 0;

} else if (randomNum < 66) {

computerChoice = 1;

} else {

computerChoice = 2;

}

printf("Your choice: %s\n", choices[userChoice]);

printf("Computer's choice: %s\n", choices[computerChoice]);

if (userChoice == computerChoice) {

printf("It's a tie!\n");

} else if ((userChoice == 0 && computerChoice == 2) ||

(userChoice == 1 && computerChoice == 0) ||

(userChoice == 2 && computerChoice == 1)) {

printf("You win!\n");

} else {

printf("Computer wins!\n");

}

return 0;

}