**Assignment – 4**

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Ques- Rock Paper Scissor (which is also called Stone Paper  
Scissor) is a hand game and played between two people, in  
which each player simultaneously forms one of three shapes.  
The winner of the game is decided as per the below rules:  
• Rock vs Paper -> Paper wins.  
• Rock vs Scissor -> Rock wins.  
• Paper vs Scissor -> Scissor wins.  
In this game, the user will be asked to make choice and  
according to the choice of user and computer and then the  
result will be displayed along with the choices of both computer  
and user.  
Note: This random number will decide the choice of computer  
as:  
• If the number is between 0-33 then the choice will be  
Stone.  
• If the number is between 33-66 then the choice will be  
Paper.  
• If the number is between 66-100 then the choice will be  
Scissors.

Sol:

#include <stdio.h>

#include <stdlib.h>

#include <time.h>

int main() {

srand(time(0));

int user\_choice,computer\_choice=rand() %101,num,round,i=1,num1;

printf("\nEnter number of round's you want to play :");

scanf("%d",&round);

while (round >= i) {

printf("\n\t 1).To select ROCK enter your choice as 1\n");

printf("\t 2).To select PAPER enter your choice as 2\n");

printf("\t 3).To select SCISSOR enter your choice as 3\n");

printf("\nEnter your choice :");

scanf("%d",&user\_choice);

if (user\_choice==1)

printf("You have selected ROCK\n");

else if (user\_choice==2)

printf("You have selected PAPER\n");

else if (user\_choice==3)

printf("You have selected SCISSOR\n");

else {

printf("# INVALID CHOICE\n");

printf("# Game has been terminated");

break;

}

if (computer\_choice>=0 && computer\_choice<=33){

printf("System has selected ROCK\n");

num=1;

}

else if (computer\_choice>33 && computer\_choice<=66){

printf("System has selected PAPER\n");

num=2;

}

else {

printf("System has selected SCISSOR\n");

num=3;

}

if (user\_choice==num){

printf("\n\tMATCH TIE\n");

}

else if ((user\_choice==1 && num==3) || (user\_choice==2 && num==1

) || (user\_choice==3 && num==2))

printf("\n\tCongratulation's !!! You have won the game\n");

else{

printf("\n\tOops !!! System has won the game\n");

printf("\t Better luck next time\n");

}

printf("\nNOTE- if you want to exit press-9 :");

scanf("%d",&num1);

if (num1==9) {

printf("You have successfully exited from game");

break;

}

else

continue;

i=i+1;

}

return 0;

}