

Experiment 2

Aim: Write a program to implement Single Player Game.

Language: Python

Theory: In this practical, I will make a Rock, paper, scissor game where user plays with computer and one whose produces a powerful symbol win.

Code:

```
# single player game in python
import random
dict = ['rock', 'paper', 'scissor']
print("\n1. Rock\n2. Paper\n3. Scissor")

x = int(input("Press 1 to start :"))

while(x==1):

    y = random.randint(0,2)
    z = int(input("\nChoose between the above "))
    z = z-1
    print("Computer chooses : ",dict[y])
    print("You Choose : ",dict[z])
    if(y==z):
        print("\nIt is a Draw")
    elif(y==0 and z==2):
        print("Computer Wins !")
    elif(y==1 and z==2):
        print("Player Wins !")
    elif(y==0 and z==1):
        print("Player Wins")
    elif(y==1 and z==0):
        print("Computer Wins !")
    elif(y==2 and z==0):
        print("Player Wins !")
    elif(y==2 and z==1):
        print("Computer Wins !")
    else:
        print("Wrong Input !")

    x = input("Want to Continue -- (T/F)")
    if(x=='t'):
        x = 1
```

```
else:  
    x = 0
```

Output:

```
D:\Ayush\Amity\AI_Python>python -u "d:\Ayush\Amity\AI_Python\x3.py"
```

```
1. Rock  
2. Paper  
3. Scissor  
Press 1 to start :1
```

```
Choose between the above 1  
Computer chooses : rock  
You Choose : rock
```

```
It is a Draw  
Want to Continue -- (T/F)t
```

```
Choose between the above 2  
Computer chooses : scissor  
You Choose : paper  
Computer Wins !  
Want to Continue -- (T/F)t
```

```
Choose between the above 1  
Computer chooses : paper  
You Choose : rock  
Computer Wins !  
Want to Continue -- (T/F)f
```

```
D:\Ayush\Amity\AI_Python>|
```