

Write a menu driven python program to demonstrate the following control statement with your own example.

- 1. if statement**
- 2. if... else statement**
- 3. nested if statement**
- 4. while loop statement**
- 5. for loop statement**
- 6. nested loop**
- 7. break statement**
- 8. continue statement**
- 9. pass statement**

AIM:

To perform a menu driven python program to demonstrate the Control statements.

ALGORITHM:

Step1:Start the program by declaring the variables and declare all the control statements in while loop as menu.

Step2:When the choice is 1 if statement will be performed which has simple if condition in it.

Step3:When the choice is 2 if else statement will be performed and it has if condition with the else condition.

Step4:When the choice is 3 nested if statement will be performed and it has if condition within the another if condition.

Step5:When the choice is 4 nested if statement will be performed and it has if condition within the another if condition.

Step6:When the choice is 5 for loop will be performed and it is a looping condition which performs continuously until the condition gets fails.

Step7:When the choice is 6 nested for loop will be performed and it is a looping condition which performs continuously until the condition gets fails and it has looping

condition within the another loop.

Step8:When the choice is 7 break statement will be performed and if once it called program will be terminated.

Step9:When the choice is 8 continue statement will be performed and it skips the statement which is given in the continue statement condition. And in choice 9 pass statement will be performed and it pass the statement by replacing it with other statement.

Step10:After choosing the choice 10 Exit will be called and the program gets stopped.

PROGRAM

```
while True:
```

```
    print("\nControl Statements...")
```

```
    print("1.Simple if")
```

```
    print("2.If-else")
```

```
    print("3.Nested if")
```

```
    print("4.if-elif-else")
```

```
    print("5.for loop")
```

```
    print("6.while loop")
```

```
    print("7.Quit")
```

```
    choice=int(input("\n Enter your Choice :"))
```

```
    if choice==1:
```

```
        print("\n IF ")
```

```
        num =int(input("\n Enter age : "))
```

```
        if num > 18:
```

```
            print(num, "You are Eligible to vote")
```

```
    if choice==2:
```

```
        print("\n IF ELSE ")
```

```
        num=int(input("Enter age : "))
```

```
        if num>18:
```

```
            print(num,"You are Eligible to vote")
```

```

else:
print(num,"You are Not Eligible to vote")
if choice==3:
print("\n NESTED IF ")
num=int(input("\n 1st NUMBER : "))
num1=int(input("\n 2nd NUMBER : ")) num2=int(input("\n 3rd
NUMBER : "))
if num>num1 and num>num2:
print(num," is Greater...")
if num1>num and num1>num2:
print(num1,"is Greater...")
else:
print(num2,"is Greater...")
if choice==4:
print("\n IF-ELIF-ELSE ")
marks=int(input("Enter STUDENT MARKS : ")) if marks > 35 and
marks<=50:
print("E Grade")
elif marks > 50 and marks<=65:
print("D Grade")
elif marks >65 and marks<=75:
print("C Grade")
elif marks >75 and marks<=85:
print("B Grade")
elif marks >85 and marks<=95:
print("A Grade")
elif marks >95 and marks<=99:
print("S Grade")
elif marks == 100:
print("O Grade")
else:

```

```
print("FAIL")
if choice==5:
print("\n PERFORMING FOR LOOP OPERATION") numbers = [6, 5, 3, 8, 4, 2, 5, 4, 11]
sum = 0
for val in numbers:
sum = sum+val
print("The sum is", sum)
if choice==6:
print("\n PERFORMING WHILE LOOP OPERATIONS")
i = int(input("Enter a number"))
while i < 6:
print(i)
i += 1
if choice==7:
print(" quitting...")
break
```

OUTPUT :

Control Statements...

- 1.Simple if
- 2.If-else
- 3.Nested if
- 4.if-elif-else
- 5.for loop
- 6.while loop
- 7.Quit

Enter your Choice :1

IF

Enter age : 20

20 You are Eligible to vote

Enter your Choice :2

IF ELSE

Enter age : 17

17 You are Not Eligible to
vote Enter your Choice :3

NESTED IF

1st NUMBER : 20

2nd NUMBER : 10

3rd NUMBER : 30

30 is Greater...

Enter your Choice :4

IF-ELIF-ELSE

Enter STUDENT MARKS : 70

C Grade

Enter your Choice :5

PERFORMING FOR LOOP OPERATION The sum is 48

Enter your Choice :6

PERFORMING WHILE LOOP OPERATIONS Enter a number5

5

Enter your Choice :7

Quiting...

RESULT:

Thus, the menu driven python program to demonstrate the Control statements were executed successfully.