Python Programs Page No-81

Program-1

```
1  # Python program to swap two variables
2  x = input('Enter value of x: ')
3  y = input('Enter value of y: ')
4  temp = x
5  x = y
6  y = temp
7  print('The value of x after swapping: {}'.format(x))
8  print('The value of y after swapping: {}'.format(y))
```

```
Enter value of x: 5
Enter value of y: 10
The value of x after swapping: 10
The value of y after swapping: 5
>
```

Program-2

```
1  #Python program to check person is eligible for voting.
2  age = int(input("Enter age : "))
3
4 ▾ if age >= 18:
5      print("Eligible for Voting!")
6 ▾ else:
7      print("Not Eligible for Voting!")
```

```
Enter age : 15
Not Eligible for Voting!
>
```

Program-3

```
1  # Python Program to find Area of a Rectangle
2  width = float(input('Please enter width of a rectangle: '
       ))
3  height = float(input('Please enter height of a rectangle:
       '))
4  # calculate the area
5  Area = width * height
6  print("\nArea of a Rectangle is: %.2f" %Area)
```

```
Please enter width of a rectangle: 12
Please enter height of a rectangle: 15
Area of a Rectangle is: 180.00
>
```

Program-4

```
1  #Python program to perform arithmetic operations.
2  a = 7
3  b = 2
4  # addition
5  print ('Sum: ', a + b)
6  # subtraction
7  print ('Subtraction: ', a - b)
8  # multiplication
9  print ('Multiplication: ', a * b)
10 # division
11 print ('Division: ', a / b)
12 # floor division
13 print ('Floor Division: ', a // b)
14 # modulo
15 print ('Modulo: ', a % b)
16 # a to the power b
17 print ('Power: ', a ** b)
```

```
Sum:  9
Subtraction:  5
Multiplication:  14
Division:  3.5
Floor Division:  3
Modulo:  1
Power:  49
>
```

Program-5

```python
# Python program for Multiplication table.
num = int(input("Display multiplication table of? "))
for i in range(1, 11):
    print(num, 'x', i, '=', num*i)

```

```
Display multiplication table of? 10
10 x 1 = 10
10 x 2 = 20
10 x 3 = 30
10 x 4 = 40
10 x 5 = 50
10 x 6 = 60
10 x 7 = 70
10 x 8 = 80
10 x 9 = 90
10 x 10 = 100
```