

L D College of Engineering, Ahmedabad

Department of Information Technology

Academic Year :- 2021-22



GTU B.E. 7th Semester

3170001- Summer Internship

Subject / Topic : Python(Django)

Day 3 :-

What I learned ?:


- In this session we are introduced to Input/Output functions `input()` and `print()` and their syntax.
- Then we learned Conditional Statements.
 1. If statement.
 2. If....else statement.
 3. If...elif....else statement.
 4. Nested If statement.
- After that we practice some programs of all these conditional statements like check number is even or odd / +ve or -ve.
- After conditional statements we got introduced by for loop and perform task of print 1 to 100 using loop.
- We also learned how to use for loop for `range()` and lists.
- Before that we learned syntax of `range()` and for loop.
- Then we got to know about statements used in for loop like `continue` and `break` as well as `pass`.
- While learning them we learned terminologies of these statements for when and why we use these.
- Onward we also learned how to use loop with else. when condition of loop get to false else statement execute.

Task:

1. Calculate average of 5 numbers.
2. Check whether number is even or odd.
3. Take a year and check whether it is leap year or not
4. Take a number and check whether it is zero, positive or negative.
5. Take 2 numbers and display greatest number. (Also check equal number condition)
6. Take a number and find factorial of that number.
7. Write a program to swap 2 numbers using third variable.
8. Take 2 numbers and find smallest number.
9. Take a number check if a number is less than 100 or not. If it is less than 100 then check if it is odd or even.
10. Take a number to print the square of a number if it is less than 10.
11. Take a number and check whether it is zero, positive or negative using nested IF...ELSE statement .
12. Take 3 numbers and find greatest number using nested IF....ELSE statement.
13. Take 3 numbers and find smallest number using logical operator.
14. Write a program to swap 2 numbers without taking third variable.
15. Take starting number and ending number from the user and print following series.

30 27 24 21 18 15 12 9 6 3 0

Link: <https://github.com/prakharninja0927/akash-internship-tasks/tree/main/task%203>

 C:\Windows\System32\cmd.exe

```
C:\Users\patel\Desktop\AkashTech\task 3>python t1.py
enter number 1 :12
enter number 2 :32
enter number 3 :43
enter number 4 :54
enter number 5 :23
average of numbers :32.8
```

```
C:\Users\patel\Desktop\AkashTech\task 3>python t2.py
enter any number20
num is even
```

```
C:\Users\patel\Desktop\AkashTech\task 3>python t2.py
enter any number11
num is odd
```

```
C:\Users\patel\Desktop\AkashTech\task 3>python t3.py
Enter a year: 2000
2000 is a leap year
```

```
C:\Users\patel\Desktop\AkashTech\task 3>python t3.py
Enter a year: 2001
2001 is not a leap year
```

```
C:\Users\patel\Desktop\AkashTech\task 3>python t4.py
enter number10
num is +ve
```

```
C:\Users\patel\Desktop\AkashTech\task 3>python t4.py
enter number0
num is 0
```

```
C:\Users\patel\Desktop\AkashTech\task 3>python t4.py
enter number-10
num is -ve
```

```
C:\Windows\System32\cmd.exe

C:\Users\patel\Desktop\AkashTech\task 3>python t5.py
enter num 1 :10
enter num 2 :20
20 is graterthan 10

C:\Users\patel\Desktop\AkashTech\task 3>python t5.py
enter num 1 :10
enter num 2 :10
both numbers are equal

C:\Users\patel\Desktop\AkashTech\task 3>python t6.py
enter number:5
factorial of 5 is 120

C:\Users\patel\Desktop\AkashTech\task 3>python t7.py
enter num 1 :10
enter num 2 :21
number 1 : 21
number 2 : 10

C:\Users\patel\Desktop\AkashTech\task 3>python t8.py
enter num 1 :10
enter num 2 :2
2 is smaller than 10

C:\Users\patel\Desktop\AkashTech\task 3>python t9.py
enter number :90
90 is even

C:\Users\patel\Desktop\AkashTech\task 3>python t9.py
enter number :87
87 is odd

C:\Users\patel\Desktop\AkashTech\task 3>python t9.py
enter number :121
121 is grater than 100
```

```
C:\Users\patel\Desktop\AkashTech\task 3>python t10.py
enter number :3
square is 3 is 9

C:\Users\patel\Desktop\AkashTech\task 3>python t10.py
enter number :5
square is 5 is 25

C:\Users\patel\Desktop\AkashTech\task 3>python t10.py
enter number :11
num is grater than 10

C:\Users\patel\Desktop\AkashTech\task 3>python t11.py
enter number10
10 is +ve

C:\Users\patel\Desktop\AkashTech\task 3>python t11.py
enter number0
number is zero

C:\Users\patel\Desktop\AkashTech\task 3>python t11.py
enter number-1
{} is -ve -1

C:\Users\patel\Desktop\AkashTech\task 3>python t12.py
enter num 1 :10
enter num 2 :10
Both number are equals

C:\Users\patel\Desktop\AkashTech\task 3>python t12.py
enter num 1 :10
enter num 2 :-21
10 is grater than -21
```

```
C:\Users\patel\Desktop\AkashTech\task 3>python t12.py
```

```
Enter num1: 10
```

```
Enter num2: 20
```

```
Enter num3: 3
```

```
Greater = 20
```

```
C:\Users\patel\Desktop\AkashTech\task 3>python t13.py
```

```
Enter num1: 10
```

```
Enter num2: 20
```

```
Enter num3: 3
```

```
smallest = 3
```

```
C:\Users\patel\Desktop\AkashTech\task 3>python t14.py
```

```
enter num 1 :10
```

```
enter num 2 :20
```

```
number 1 : 20
```

```
number 2 : 10
```

```
C:\Users\patel\Desktop\AkashTech\task 3>python t15.py
```

```
enter num:10
```

```
10,9,8,7,6,5,4,3,2,1,
```

```
C:\Users\patel\Desktop\AkashTech\task 3>python t15.py
```

```
enter num:10
```

```
10,9,8,7,6,5,4,3,2,1,0,
```

```
C:\Users\patel\Desktop\AkashTech\task 3>_
```