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Day - 3

❖ Day-3 : What we have learnt ?

- Get input through user.
- Functions. (range ())
- Conditional Statements.
 - If statement
 - If...else Statement
 - If...elif...else Statement
 - Nested if statements
- Loops
 - While loop
 - For loop
 - Nested loop
- Break & Continue & Pass Statements

✧ This Internship is Task Based Internship. So at the end of this session we got one Task.

Tasks :-

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

Output :-

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.16299.19]
(c) 2017 Microsoft Corporation. All rights reserved.

D:\Internship-AkashTechnolabs\Internship-AkashTechnolabs>python day3.py
1=====
enter the five numbers
enter the numbers :2
enter the numbers :3
enter the numbers :4
enter the numbers :5
enter the numbers :6
average is : 4.0
2=====
enter the number to check even or odd
the number is: 1
1 is odd
3=====
the year to check for the leap year
Enter a year: 2000
2000 is a leap year
greatest number of the two
Enter the number1: 1
Enter the number2: 2
2 is greater than 1.
6=====
factorial of a number
Enter the number: 6
Factorial of 6 is 720.
7=====
swap two numbers
Enter the number1: 1
Enter the number2: 4
number1 is 4
number2 is 1
8=====
smallest number
Enter the number1: 3
Enter the number2: 5
3 is smaller than 5.
9=====
number less than 100 and check even or odd
Enetr the number: 32
Number is less than 100 and even.
9=====
number less than 100 and check even or odd
Enetr the number: 5
Number is less than 100 and odd.
9=====
number less than 100 and check even or odd
Enetr the number: Traceback (most recent call last):

Activate Windows
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```

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```
C:\Windows\System32\cmd.exe
enter the numbers :Traceback (most recent call last):
  File "D:\Internship-AkashTechnolabs\Internship-AkashTechnolabs\day3.py", line 6, in <module>
    # number=int(input("enter the numbers :"))
KeyboardInterrupt
^C
D:\Internship-AkashTechnolabs\Internship-AkashTechnolabs>python day3.py
10=====
square of a number :
Enter the number: 5
Square of 5 is a 25
Enter the number: 2
Square of 2 is a 4
Enter the number: 4
Square of 4 is a 16
11=====
check the number whether zero,positive or negative
Enter the number: 4
4 is Positive.
Enter the number: 3
3 is Positive.
Enter the number: 2
2 is Positive.
12=====
take 3 numbers and find the gratest
Enter the number1: 3
Enter the number2: 2
Enter the number3: 5
5 is a gratest number.
13=====
smallest of three numbers :
Enter the number1: 25
Enter the number2: 26
Enter the number3: 24
24 is a smallest number.
14=====
swap two numbers :
Enter the number1: 3
Enter the number2: 44
number1 is 44
number2 is 3
15=====
the sequence 30 27 24 21.....
Enter the starting number: 30
Enter the ending number: 0
30
27
24
21
18
15
```

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