Internship Program – AkashTechnolabs

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Day-4-Report

(Work Summary)

INTERNSHIP at AkashTechnoLabs

Day-4: What we learnt?

- ✓ First start with what is function in python, how to define it and perform program for simple function.
- ✓ Function is defined as:
  - ➢ def keyword
  - ➢ function name
  - ➢ arguments
  - ➢ colon(:)
  - ➢ function body
  - ➢ return statement(optional).
- ✓ Afterwards, we learned about:
  - ➢ Function with arguments
  - ➢ Function with return statement
  - ➢ Function with multiple return statements
- ✓ We performed programs on all above topics with more examples.

- ✓ Then, we learned types of function arguments:
  - ➢ Default arguments
  - ➢ Keyword arguments
  - ➢ Variable-length arguments
- ✓ We perform all types of arguments program to understand well and this helps us in remembering for long time.
- ✓ We also learned about non keyword arguments as well as keyword arguments where in non-keyword we provide arguments without using argument name whereas in keyword arguments we provide arguments name which is defined in calling function.
- ✓ Then after we get the information about Scope of variable which is mainly two typed:
  - ➢ Global Variable- Variables that are defined inside a function body.
  - ➢ Local variable- Variables that are defined outside.
- ✓ We also get the information about 'indentation error: expected an indented block'.
- ✓ After that we get to know about module functionality of python programming.
- ✓ We use modules to break down large programs into small manageable and organized files.
- ✓ We can define our most used functions in a module and import it, instead of copying their definitions into different programs.
- ✓ After, we performed some examples on it.
- ✓ Then, we learned operators used in python:
  - ➢ Arithmetic Operators:
    - ● Addition (+)
    - ● Subtraction (-)
    - ● Multiplication (*)

- Division (/)
- Modulus (%)
- Floor Division (//)
- Exponent (**)

➢ Comparison Operators:
- Greater than (>)
- Less than (<)
- Equal to (==)
- Not equal to (!=)
- Greater than or equal to (>=)
- Less than or equal to (<=)

➢ Logical Operators:
- and
- or
- not

➢ Assignment Operators like =, +=, -=, *=, /=, %=, //=, **=

➢ Membership Operators:
- in
- not in

➢ Identify Operators:
- is
- is not

Internship Program – AkashTechnolabs

Task: -

GitHub Link:- https://github.com/kamiyab786/Internship-AkashTechnolabs/tree/main/Day%204

1. function.py

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19043.985]
(c) Microsoft Corporation. All rights reserved.

D:\GitHub\Akash Tachnolabs Internship\Day 4>python function.py
----------Simple Function----------
Hello World!!
----------Function with Argument----------
Kamiyab Bhatt
----------Function with Return Statement----------
Kamiyab
----------Function with Multiple Return----------
College name: LDCE
Department: IT(7th sem)
----------Function with Default Arguments----------
function_default(10, 20) : 30
function_default() : 3
----------Function with Keyword Arguments----------
function_keyword(a=10, b=20) : 200
function_keyword(b=10, a=20) : 200
----------Function with Variable-length(Non Keyword) Arguments----------
function_varlength_non(10, 20) :  30
function_varlength_non(10, 20, 30) :  60
function_varlength_non(10, 20, 30, 40) :  100
----------Function with Variable-length(Keyword) Arguments----------
function_varlength_key(Name="Kamiyab",Surname="Bhatt") : {'Name': 'Kamiyab', 'Surname': 'Bhatt'}
function_varlength_key(Name="Kamiyab",Surname="Bhatt", College="LDEC") : {'Name': 'Kamiyab', 'Surname': 'Bhatt', 'College': 'LDEC'}
----------Scope of Variable----------
Value inside function: 10
value outside function: 20
----------Module Function----------
Factorial: 120
```

2. operators.py

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19043.985]
(c) Microsoft Corporation. All rights reserved.

D:\GitHub\Akash Tachnolabs Internship\Day 4>python operators.py
------------------Operators--------------------
x: 100
y: 200
z: 300
lst: [10, 20, 30, 40, 'Hello', 'Kamiyab']
-----------------------------------------------
<-----Arithmetic operators----->
Summation of 100 and 200: 300
Subtraction of 100 and 200: -100
Multiplication of 100 and 200: 20000
Division of 100 and 200: 0.5
Floor Division of 100 and 200: 0
Modulus of 100 and 200: 100
<-----Comparison Operators----->
100>200: False
100<200: True
100==200: False
100>=200: False
100<=200: True
100!=200: True
<----Logical Operators---->
-----and operator-----
300 is the largest
----or operator----
enter char:a
a  is Vowel
<----Membership Opearators---->
x in lst: False
y in lst: False
y not in lst: True
<----Identity Opearators---->
x is y: False
x is not y: True
```