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Day-2-Report

(Work Summary)

INTERNSHIP at AkashTechnoLabs

- ❖ Today it was the second day of our Internship.
- ❖ First, akash sir start with how was previous day experience?
- ❖ Then, sir solved doubts of previous day task.
- ❖ Afterwards, devanshi mam started our topic basic of python.

Day-2: What we learnt?

- ✓ How to define single line comments (with #) and multiline comments
 (with """""" or """).
- ✓ How to define variables ex: name: 'string', number: 100.
- ✓ How to define various datatypes like numbers, tuple, list, dictionary, Boolean, set etc.
- ✓ How to do type casting:
 - int() for interger type casting
 - float() for float type casting
- ✓ type() function is used to know class of variable or value.
- ✓ isinstace() function used to check if an object belongs to a particular class.

<u>Task – 1 (Basic)</u>: -

1) Comments:

```
#Single Line like this

///

Multiline

Comments

like this

///

"""

Multiline

Comments

also like this

"""
```

2) Variables:

```
#creating variables
print("----creating variables----")
x = 5
y = "Kamiyab"
print(x)
print(y)

#assign value to multiple variables
print("----assign value to multiple variables----")
x, y, z = "Kamiyab", "Husen", "Bhatt"
print(x)
print(y)
print(y)
```

Output:

```
----creating variables----

5
Kamiyab
----assign value to multiple variables----
Kamiyab
Husen
Bhatt
```

3) Various Datatypes:

```
print("----Int Datatype----")
num1 = 10 # decimal form
num2 = 0B111  # binary form (B or b can use)
num3 = 00123  # octal form (0 or o can use)
num4 = 0Xabc  # hexadecimal form (X or x can use)
print(f'decimal: {num1}')
print(f'binary: {num2}')
print(f'octal: {num3}')
print(f'hexadecimal: {num4}')
print("----Float Datatype----")
num5 = 1.234 # decimal for
num6 = 1.2e3 \# exp
print(f'decimal: {num5}')
print(f'exponential: {num6}')
print("----Complex Datatype----")
num7 = 3+5.5
print(f'number: {num7}')
print(f'real part: {num7.real}')
print(f'imaginary part: {num7.imag}')
print("----Boolean Datatype----")
bool1 = True  # True/False value
```

```
print(bool1)
print(True+False) # True=1 & False=0

# string datatype
print("----String Datatype----")
str1 = "Python is Cool!!"
print(str1)
```

Output:

```
----Int Datatype----
decimal: 10
binary: 7
octal: 83
hexadecimal: 2748
----Float Datatype----
decimal: 1.234
exponential: 1200.0
----Complex Datatype----
number: (3+5.5j)
real part: 3.0
imaginary part: 5.5
----Boolean Datatype----
True
----String Datatype----
Python is Cool!!
```

4) List Datatype:

```
# collection of different type of elements.
# list is mutable(it can be add/modify/remove) and
duplicate elements are supported.
languages=['Python',
'Java','C','C++','HTML','CSS','C','JavaScript','.NET',10,10
,30]
number=[90,25,5,80,40]
print(f'languages:{languages}\n')
print(f'languages:{languages}\n')
print(f'{languages[1]}')
print(f'{languages[-3]}')
```

```
for item in languages:
    print(f'item:{item}')
print("\n")

print("-------Slicing Elements-----")
print(f'{languages[1:5]}')
print(f'{languages[1:]}')
print(f'{languages[:6]}')
print(f'{languages[:]}')
print(f'{languages[::-2]}')
```

Output:

```
------Slicing Elements------
['Java', 'C', 'C++', 'HTML']
['Java', 'C', 'C++', 'HTML', 'CSS', 'C', 'JavaScript', '.NET', 10, 10, 30]
['Python', 'Java', 'C', 'C++', 'HTML', 'CSS']
['Python', 'Java', 'C', 'C++', 'HTML', 'CSS', 'C', 'JavaScript', '.NET', 10, 10, 30]
[30, 10, 'JavaScript', 'CSS', 'C++', 'Java']
```

5) Tuple Datatype:

```
#collection of different elements.
#tuple is unmutable(it cannot be add/modify/remove) and
duplicate elements are supported.
animals =
```

```
('tiger','lion','panther','leopard','tiger','elephant',10,2
0,30,10)
print(f'animals:{animals}\n')
print("-----")
print(animals[4])
print(animals[-2])
for animal in animals:
   print(f'animal[{animal}]')
print("\n")
print("-----Slicing Elements----")
print(animals[1:5])
print(animals[:6])
print(animals[2:])
print(animals[:])
print(animals[-3:])
print("\n")
```

Output:

```
-----Slicing Elements------

('lion', 'panther', 'leopard', 'tiger')

('tiger', 'lion', 'panther', 'leopard', 'tiger', 'elephant')

('panther', 'leopard', 'tiger', 'elephant', 10, 20, 30, 10)

('tiger', 'lion', 'panther', 'leopard', 'tiger', 'elephant', 10, 20, 30, 10)

(20, 30, 10)
```

6) Set Datatype:

```
#collection of different elements.
#set is mutable(it can be add/remove) and duplicate
elements are not supported.
numset = {10,20,45,60,10,50,'tiger'}
print(numset)
numset.remove(50)
print(numset)
numset.pop()
print(numset)
num1=numset.copy()
print(num1)
numset.add(65)
print(numset)
print(numset)
print(numset.difference(num1))
num2={'hii','byee'}
numset.update(num2)
print(numset)
```

Output:

```
{'tiger', 10, 45, 50, 20, 60}
{'tiger', 10, 45, 20, 60}
{10, 45, 20, 60}
{10, 20, 45, 60}
{65, 10, 45, 20, 60}
{65, 10, 45, 20, 60}
{65, 'hii', 10, 'byee', 45, 20, 60}
```

7) Dictionary Datatype:

```
#dictionaries are mutable(it can be add/modify/remove) and
duplicate values are not supported
import pandas as pd
colors = {
    1:"red",
    2:"blue",
    3:"black",
    4:"pink",
    5:"white"
}

print("------Accessing Elements------")
print(f'colors:{colors}')
print(f'item:{colors[2]}')
print(f'get:{colors.get(6)}')
print(f'keys:{colors.keys()}')
print(f'values:{colors.values()}')
```

Output:

```
-----Accessing Elements------

colors:{1: 'red', 2: 'blue', 3: 'black', 4: 'pink', 5: 'white'}

item:blue

get:None

keys:dict_keys([1, 2, 3, 4, 5])

values:dict_values(['red', 'blue', 'black', 'pink', 'white'])
```

8) type():

```
num1 = 1000
num2 = 100.50
num3 = 3+5.5j
bool1 = True
str1 = 'kamiyab'
list1 = ["apple", "orange", 10, 20, 10]
tuple1 = (10, "apple", 20, 10)
set1 = {10, 20, 30, 'apple', 40, 20}
dict1 = \{1: "apple", 2: "orange"\}
print(type(num1))
print(type(num2))
print(type(num3))
print(type(bool1))
print(type(str1))
print(type(list1))
print(type(tuple1))
print(type(set1))
print(type(dict1))
```

Output:

```
<class 'int'>
<class 'float'>
<class 'complex'>
<class 'bool'>
<class 'str'>
<class 'list'>
<class 'tuple'>
<class 'set'>
<class 'dict'>
```

Task – 2 (Advance): -

CRUD Operations using MySQL

GitHub Link:- https://github.com/kamiyab786/Internship-akashTechnolabs/blob/main/Task2/Python_CRUD_Operation.py

1) Insert:

```
DB already exists
table already exists
choose option
1.insert data
2.read data
3.update data
4.delete data
enter your choice:1
----We are inserting data----
enter name:kamiyab
enter marks:98
insert into student(name,marks) values('kamiyab',98);
```

2) Read:

```
D:\PYTHON\kamiyab\venv\Scripts\python.exe D:/Python/kamiyab/Python_CRUD_Operation.py
DB already exists
table already exists
choose option
1.insert data
2.read data
3.update data
4.delete data
enter your choice:2
----retrive data----
id name marks
1 husen 100
2 kamiyab 98
```

3) Update:

```
D:\PYTHON\kamiyab\venv\Scripts\python.exe D:/Python/kamiyab/Python_CRUD_Operation.py
DB already exists
table already exists
choose option
1.insert data
2.read data
3.update data
4.delete data
enter your choice:3
----Update Data----
enter student id to update 1
select option for update
1.update only name
2.update only marks
3.update both
enter update option:
----update only marks---
enter new marks :95
```

4) Delete:

```
D:\PYTHON\kamiyab\venv\Scripts\python.exe D:/Python/kamiyab/Python_CRUD_Operation.py
DB already exists
table already exists
choose option
1.insert data
2.read data
3.update data
4.delete data
enter your choice:4
Enter ID to be Deleted 2
```

```
----retrive data----
id name marks
1 husen 95
```

5) MySQL Database:

