Shani Baladhiya

Date : 26th May 2021

Day - 2- Report

(Work Summary)

INTERNSHIP AT AKASHTECHNOLABS

❖ Day-2 : What we learnt ?

- Brief information about Variable, Datatype and Comments
- Various Datatypes and Data Structures.
  - List
  - Tupple
  - Dictionary

❖Task:-

❖Comments:

```
#This is signle line Comment

"""
This is a
multiline
comments.
"""
```

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❖Variable :

```
a=10
b=20.5
c="Shani"

print(a, b, c)

c="bunny"
print(c)
```

Output:

10 20.5 Shani

Bunny

```
a = b = c = 10
print('a = ', a)
print('b = ', b)
print('c = ', c)
```

Output:

a = 10

b = 10

c = 10

❖Datatype:

```
i=10
print(type(i))

f=20.4
print(type(f))

c=12e10
print(type(c))
print(c)

#complex data type
```

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```
com=1+5j
print(type(com))
com1=0b011+5j
print(type(com1))

#bool datatype
x=12
y=10
b=x>y
print(type(b))

#str datatype
s1='shani'
print(type(s1))
s2="bunny"
print(type(s2))
#slicing of string
s="shani"
print(s[0])
print(s[-1])
print(s[1:3]) #[start:end]
print(s[1:])
print(s[:3])
print(s[:])
print(s*3)
```

Output:

```
<class 'int'>
<class 'float'>
<class 'float'>
120000000000.0
<class 'complex'>
<class 'complex'>
<class 'bool'>
<class 'str'>
<class 'str'>
s
i
ha
hani
sha
shani
shanishanishani
```

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❖List Datatype

```
l=[10,20,1.5,"shani",10]
#list can be represented in square brackets
print(type(l))
print(l)
print(l[3])
print(l[-1])
print(l[2:4])
l[0]=100
print(l)
#list multiplication
l=l*2
print(l)
```

Output:

<class 'list'>

[10, 20, 1.5, 'shani', 10]

shani

10

[1.5, 'shani']

[100, 20, 1.5, 'shani', 10]

[100, 20, 'shani', 10, 'bunny', 100, 20, 'shani', 10, 'bunny']

❖Tuple Datatype

```
x=(10,20,30)
#Tuple elements can be represented within parenthesis
print(type(x))
print(x)
print(x[1])
print(x[-1])
print(x[0:2])
x=x*2
print(x)
```

Output:

<class 'tuple'>

(10, 20, 30)

20

30

(10, 20)

(10, 20, 30, 10, 20, 30)

❖Dictionary

```
d={1:'shani',2:'bunny'}
print(d)
d[1]='bunnyvalashani'
print(d)
d1={} #empty dict
print(d1)
'''add new element'''
d[3]='shani'
d['shani']='baladhiya'
print(d)
```

Output:

{1: 'shani', 2: 'bunny'}
{1: 'bunnyvalashani', 2: 'bunny'}
{}
{1: 'bunnyvalashani', 2: 'bunny', 3: 'shani', 'shani': 'baladhiya'}