

Date : 26th May 2021

Day 2 - Report (Work Summary)

[INTERNSHIP AT AKASHTECHNOLABS](#)

❖ Day-2 : What did we learn

- Today our mentor Devanshi mam enlightened us about various datatypes and data structures which are present in Python.
- And also gave a brief information about Variable, Datatype and Comments
- Various Datatypes and Data Structures.
 - List
 - Tuple
 - Dictionary

❖ Task:-

❖ Comments:

```
#This is single line Comment
```

```
"""
This is a
multi line
comment.
"""
```

❖ Variable :

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

print(a, b, c)

c="Hello"
print(c)
```

Output:

10 20.5 Bibin

Hello

```
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
```

```
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='bibin'
print(type(s1))
s2="hello"
print(type(s2))
#slicing of string
s="bibin"
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'>
1200000000000.0
<class 'complex'>
<class 'complex'>
<class 'bool'>
<class 'str'>
<class 'str'>
b
i
bi
ibin
bib
bibin
bibinbibinbibin
```

❖ List Datatype

```
l=[10,20,1.5,"bibin",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, 'bibin', 10]

bibin

10

[1.5, 'bibin']

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

[100, 20, 'bibin', 10, 'hello', 100, 20, 'bibin', 10, 'hello']

❖ Tuple Datatype

```
1 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:'bibin',2:'hello'}
print(d)
d[1]='hitherebibi'
print(d)
d1={} #empty dict
print(d1)
'''add new element'''
d[3]='bibin'
d['bibin']='naluparayil'
print(d)
```

Output:

{1: 'bibin', 2: 'hello'}

{1: 'hitherebibi', 2: 'hello'}

{}

{1: 'hitherebibi', 2: 'hello', 3: 'bibin', 'bibin': 'naluparayil'}