



University Institute of Engineering

Department of Computer Science & Engineering

DISRUPTIVE TECHNOLOGY-1 WORKSHEET

Project: Different data types and examples in python

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Subject Name: DISRUPTIVE TECHNOLOGY-1

Subject Code: 22ECH-102

1. Aim of the project: To learn about various data types with examples of each.

2. Tool Used: Google Colab

3. Basic Concept/ Command Description: In this practical, we apply the learned concept of various data types in python through some examples.

4. Code:

4(a). Numeric data types

```
[ ] a=54  
    b=7.125  
    print(a-b)
```

```
46.875
```

```
▶ a=-22  
  b=11j  
  print(a-b)
```

```
↳ (-22-11j)
```

4(b). Type conversions

```

a="1010110"
b=int(a,2)
print(b)
e=float(a)
print(e)

```

```

86
1010110.0

```

```

[ ] a=hex(63)
    b=oct(63)
    print(a)
    print(b)

```

```

0x3f
0o77

```

```

a="animesh"
b=tuple(a)
print(b)
c=set(a)
print(c)
d=list(a)
print(d)

```

```

('a', 'n', 'i', 'm', 'e', 's', 'h')
{'h', 'n', 'i', 'a', 's', 'm', 'e'}
['a', 'n', 'i', 'm', 'e', 's', 'h']

```

4(c).Lists

```

a=[23,24, 'kumar', 36, 8.87]
print(a[:])
print(a[:3])
print(a[0:4])
print(a[::-1])
print(a[0:5:2])
print(a[2][3])

```

```

[23, 24, 'kumar', 36, 8.87]
[23, 24, 'kumar']
[23, 24, 'kumar', 36]
[8.87, 36, 'kumar', 24, 23]
[23, 'kumar', 8.87]
a

```

```

a=[25,33,'dt', 26, 87.96]
a.append(['de',300,457])
print(a)
a.extend(['de',300,457])
print(a)
print(len(a))
a.insert(56,'python')
print(a)

```

```

a=[12,556,'distro',24,99.99]
del a[2]
print(a)
a.remove(556)
print(a)
a.clear()
print(a)

```

```

[12, 556, 24, 99.99]
[12, 24, 99.99]
[]

```

```

[5] a=(74,46,220)
b=('linux', 'unix','ubuntu')
c=(74,46,220,['linux','unix','param'])
print(a[0])
print(b[:])
print(c[3][1])
c[3][1]='windows'
print(c)

```

```

74
('linux', 'unix', 'ubuntu')
unix
(74, 46, 220, ['linux', 'windows', 'param'])

```

```

a={1:'python', 2:'go',3:'elixir', 'second':'haskell'}
print(a)
print(a[1])
print(a[2])
print(a[3])
print(a['second'])

```

```

{1: 'python', 2: 'go', 3: 'elixir', 'second': 'haskell'}
python
go
elixir
haskell

```