

Day1_CW_DSM

February 3, 2023

[5]: a=10

[6]: a

[6]: 10

[7]: *## Comments*
for single we use
this is function
this is comment
a=20
a

[7]: 20

[8]: *"""*
hello this is an example of multi line comments
hguxjhvbvf
hgufhvgnh
"""
a=20
a

[8]: 20

1 Hello

1.1 Hello1

1.1.1 Hello2

1. Hello guys how are you

1.1.2 Numbers

[10]: print(1+4)

5

```
[11]: 1+4
```

```
[11]: 5
```

```
[12]: a=4  
a
```

```
[12]: 4
```

```
[13]: a=4  
print(a)
```

```
4
```

```
[14]: print("hello world")
```

```
hello world
```

```
[15]: print("My name is Driptarshi Ray")
```

```
My name is Driptarshi Ray
```

```
[17]: print("My name Driptarshi Ray I live in noapara I am a Physics Student I used_  
↪study in Holy Palace Multipurpose Institute I graduated with physics from_  
↪University of Calcutta")
```

```
My name Driptarshi Ray I live in noapara I am a Physics Student I used study in  
Holy Palace Multipurpose Institute I graduated with physics from University of  
Calcutta
```

```
[22]: print("My name Driptarshi Ray I live in noapara I am a Physics Student I used_  
↪study in Holy Palace Multipurpose Institute \nI graduated with physics from_  
↪University of Calcutta")
```

```
My name Driptarshi Ray I live in noapara I am a Physics Student I used study in  
Holy Palace Multipurpose Institute  
I graduated with physics from University of Calcutta
```

1.2 Variable Assignment

```
[27]: name="Driptarshi Ray"  
University="University of Calcutta"
```

```
[28]: name
```

```
[28]: 'Driptarshi Ray'
```

```
[33]: name="DR"
```

```
[34]: name
[34]: 'DR'
[29]: University
[29]: 'University of Calcutta'
[31]: number=10
[32]: number
[32]: 10
[35]: number=20
      number
[35]: 20
[36]: ""
[36]: ''
[37]: ''
[37]: ''
[41]: type("")
[41]: str
[40]: type("abc")
[40]: str
[42]: type(name)
[42]: str
[43]: type(number)
[43]: int
[44]: decimal_num=2.5
[45]: decimal_num
```

[45]: 2.5

```
[46]: type(decimal_num)
```

[46]: float

```
[47]: type("")
```

[47]: str

```
[48]: 1+2j
```

[48]: (1+2j)

```
[49]: type(1+2j)
```

[49]: complex

```
[51]: print("hello")
      print('hello')
```

hello

hello

```
[52]: type(1+2j-1-2j)
```

[52]: complex

```
[53]: ## variables are case sensitive
      Name="Driptarshi Ray"
      name="DR"
      print(name)
      print(Name)
```

DR

Driptarshi Ray

```
[54]: ## Boolean
      True
```

[54]: True

```
[55]: False
```

[55]: False

```
[57]: True or False
```

[57]: True

```
[58]: True and False
```

[58]: False

```
[59]: True and False or True
```

[59]: True

```
[62]: not True
```

[62]: False

```
[64]: not False
```

[64]: True

```
[65]: True or not False
```

[65]: True

```
[66]: type(not True)
```

[66]: bool

```
[68]: type(True)
```

[68]: bool

```
[70]: bool(1)
```

[70]: True

```
[71]: print(bool(0))
```

False

```
[75]: b=0
      if bool(b)==False:
          print("False")
```

False

```
[76]: str(12)
```

[76]: '12'

```
[77]: int('12')
```

```
[77]: 12
```

1.3 Dynamic Typing

```
[ ]: a=12  
    str1="Driptarshi"  
    a="var"
```

```
[78]: type(int('23'))
```

```
[78]: int
```

```
[79]: type(a)
```

```
[79]: int
```

```
[80]: print(type(a))
```

```
<class 'int'>
```

```
[81]: b="var"
```

```
[82]: type(b)
```

```
[82]: str
```

```
[83]: print(type(b))
```

```
<class 'str'>
```

```
[85]: int(123)
```

```
[85]: 123
```

```
[86]: int(3.14141414141414141414)
```

```
[86]: 3
```

```
[ ]: ## concatenation between different types
```

```
[87]: "1"+"1"
```

```
[87]: '11'
```

```
[88]: int("1") + int("1")
```

[88]: 2

```
[94]: print("1"*4)
```

1111

```
[95]: bool(2)
```

[95]: True

```
[96]: bool(-2)
```

[96]: True

```
[97]: bool(1.23)
```

[97]: True

```
[98]: bool(0.23)
```

[98]: True

```
[ ]:
```