

L05

February 20, 2024

```
[ ]: print("welcome")
```

```
[ ]: !ls
      !echo "hi"
```

```
[ ]:
```

```
[ ]: %%!
      ls
      echo "welcome"
      wc datafiles/names.txt
```

```
[ ]:
```

```
[ ]: %%HTML
      
```

1 introduction

Here we will evaluate the **datassum** **\$\$set xyz** and we will do ## Para 1

$$\sum_{j=1}^N \frac{1}{j^2}$$

```
[ ]: print?
```

```
[ ]: help(print)
```

```
[33]: # Python
      # Data types
      # int 6, 7, -5,          +,-,*,/,//,%,**
      # float 0.4, 2.5, 1.0    +,-,*,/,**
      # bool True==1, False==0, and,or,not
      # str 'welcome', "welcome", '''welcome''', """welcome""", +, , len, list, ↵
      ↪x[start:end:step]
```

```
# type(), int(), float(), bool(), str()
```

```
[50]: x='welcome'
      x[0]
      x[-1]
      list(x)
      # x[start:end:step]
      x[0:5:2]
      x[-7:-3]
      x[5:0:-1]
```

```
[50]: 'mocle'
```

```
[46]: x='welcome'
      bool(x)
```

```
[46]: True
```

```
[38]: x=True
      int(x)
```

```
[38]: 1
```

```
[41]: x=-9
      bool(x)
```

```
[41]: True
```

```
x='welcome' type(x)
```

```
[37]: int(x)
```

```
-----
ValueError                                Traceback (most recent call last)
Cell In[37], line 1
----> 1 int(x)

ValueError: invalid literal for int() with base 10: 'welcome'
```

```
[ ]:
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[ ]:
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```
[29]: x=10
      type(x)
```

```
[29]: int
```

```
[30]: float(x)
```

```
[30]: 10.0
```

```
[31]: str(x)
```

```
[31]: '10'
```

```
[32]: x
```

```
[32]: 10
```

```
[ ]:
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[ ]:
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```
[27]: x='welcome'
      len(x)
      # x[7]
      x[6]
      x[-1]
```

```
[27]: 'e'
```

```
[21]: x='welcome'
      x*3
```

```
[21]: 'welcomewelcomewelcome'
```

```
[16]: x="welcome everyone"
      y='welcome everyone'
      print(x)
      print(y)
```

```
welcome everyone
welcome everyone
```

```
[17]: x='''welcome
      everyone'''
      print(x)
```

```
welcome
everyone
```

```
[19]: # x='I'm fine'  
      x="I'm fine"
```

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