

Session-1

today im learning python basics

Variables

what is the defination of variables?

- it store some values
- it place some memory
- whose value will change

```
In [ ]: #variables ===== some thing will vary
```

```
In [2]: a=10
# a is a variable ,
# the value 10 is stored in 'a'
```

```
In [3]: a=50
a
```

Out[3]: 50

```
In [ ]: # how the variables will be intialised
```

```
In [4]: number=100
number
```

Out[4]: 100

```
In [5]: NUMBER=200
NUMBER
```

Out[5]: 200

```
In [6]: NUmber=300
NUmber
```

Out[6]: 300

```
In [7]: number123=400
number123
```

Out[7]: 400

```
In [8]: 123number=500
123number
```

```
Cell In[8], line 1
    123number=500
      ^
SyntaxError: invalid decimal literal
```

```
In [9]: number$=600
number$
```

```
Cell In[9], line 1
    number$=600
      ^
SyntaxError: invalid syntax
```

```
In [10]: number_123=700
number_123
```

```
Out[10]: 700
```

```
In [11]: number_%=800
number_%
```

```
Cell In[11], line 2
    number_%
      ^
SyntaxError: invalid syntax
```

- variables are case sensitive
- both upper case and lower case will be used to initialise the variables
- letters as prefix and number as suffix will work
- numbers as prefix will not work
- underscore symbol will work
- all symbols other than underscore will not work
- keywords are not used as variables

```
In [12]: number#=120
number#
```

```
Out[12]: 100
```

```
In [13]: number=100
number=200
number
```

```
Out[13]: 200
```

In []:

In [14]: `if=500`
`if`

Cell In[14], line 1

`if=500`

^

SyntaxError: invalid syntax

In [15]: `sum=100`
`sum`

Out[15]: 100

In []: