Variables

python variable is used to store values.

```
In [3]:
         a = 10
In [5]: | print(a)
         10
In [8]: b = 9.8
         print(B)
         NameError
                                                     Traceback (most recent c
         all last)
         <ipython-input-8-cd07d2818810> in <module>
               1 b = 9.8
         ---> 2 print(B)
         NameError: name 'B' is not defined
In [9]:
         print(b)
         9.8
In [10]:
         c = 'coder'
In [11]:
         print(c)
         coder
In [12]: a = 56
In [16]: #printing value of a
         print(a)
         56
```

Data types

```
In [20]: | # integer
         a = 9
In [21]: # finding data type of stored value
         type(a)
Out[21]: int
In [22]: # float
         weight = 45.8
In [23]: type(weight)
Out[23]: float
In [40]: # string
         name = 'avengers'
         type(name)
Out[40]: str
In [45]: # boolean
         6>5
Out[45]: True
In [46]: 1>100
Out[46]: False
In [47]: type(8>67)
Out[47]: bool
In [52]: # complex number ( combination of real and imaginary number)
         var1 = 5 + 7j
         type(var1)
Out[52]: complex
In [63]: # list
         1 = [5,6,7,8,7.4,'python']
```

```
In [64]: type(1)
Out[64]: list
In [65]: # Tuple
         tup = (4,6,2,7.4,'python')
In [66]: | type(tup)
Out[66]: tuple
In [74]: | # Dictionary :{keys :values} pair
         d = {"python" :3.8,'b':10 ,8:'programming'}
In [78]: | print(d)
         {'python': 3.8, 'b': 10, 8: 'programming'}
In [75]: d.keys()
Out[75]: dict keys(['python', 'b', 8])
In [76]: | d.values()
Out[76]: dict_values([3.8, 10, 'programming'])
In [68]: type(d)
Out[68]: dict
In [79]: | # set : no (keys :values) pair present
         s = \{4, 8, 10\}
In [62]: type(s)
```

User input

Out[62]: set

Typecasting

Task

1) write a python program to save following data in variable (any variable that you want):

- . name, weight, height, 12th marks, any boolian condition
- . print every variable
- . check data type of each variable
- 2) write a python program to take input from user for your mobile number and check data type

In []:]:	