Variable Assignment

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In [4]: intvar=10
         floatvar=20.0
         strvar="Python language"
         print(intvar)
         print(floatvar)
         print(strvar)
       10
       20.0
       Python language
In [2]: print(floatvar)
       20.0
In [3]: print(intvar)
         print(floatvar)
         print(strvar)
       10
       20.0
       Python language
         Multiline Assignment
In [5]: intvar,floatvar,strvar=15,25.7,"Python language"
         print(intvar)
         print(floatvar)
         print(strvar)
       15
       25.7
       Python language
In [6]: r1=r2=r3=r4=33
         print(r1,r2,r3,r4)
       33 33 33 33
         String creation
In [7]: str1="hello"
         print(str1)
       hello
In [8]: mystr="python"
         print(mystr)
       python
         Forward slicing
In [1]: str='hello world'
         str
Out[1]: 'hello world'
```

```
In [2]: str[0]
 Out[2]: 'h'
 In [3]: str[1]
 Out[3]: 'e'
 In [4]: str[3]
 Out[4]: '1'
In [5]: str[10]
 Out[5]: 'd'
 In [6]: str[2:9:3]
 Out[6]: '1 r'
In [7]: str[3:5:7]
 Out[7]: '1'
         Backward indexing
 In [8]: str
 Out[8]: 'hello world'
In [9]: str[-5]
Out[9]: 'w'
In [10]: str[-3]
Out[10]: 'r'
In [11]: str[-9]
Out[11]: 'l'
         STring Slicing
In [12]: str="hello python"
Out[12]: 'hello python'
In [13]: str[0:5]
Out[13]: 'hello'
In [14]: str[6:12]
```

```
Out[14]: 'python'
In [15]: str[-4:]
Out[15]: 'thon'
         Update and delete string
In [16]: str="hello everyone"
         str
Out[16]: 'hello everyone'
In [17]:
                                                  Traceback (most recent call last)
        TypeError
        Cell In[17], line 1
        ----> 1 str[0:4]='holla'
       TypeError: 'str' object does not support item assignment
In [19]: i=10
Out[19]: 10
In [20]: type(i)
Out[20]: int
In [21]: f=15.6
Out[21]: 15.6
In [22]: type(f)
Out[22]: float
In [23]: print(i)
         print(f)
        10
        15.6
In [24]: print(i+f)
        25.6
In [25]: c=10+20j
         d=20+30j
         c+d
Out[25]: (30+50j)
```

```
In [26]:
         type(c)
          type(d)
Out[26]: complex
In [28]: str="hello"
          print(str[0])
          print(str[1])
          print(str[2])
          print(str[3])
          print(str[4])
        h
        e
        1
        1
        0
In [29]: str="hello"
          print(str[-1])
          print(str[-2])
          print(str[-3])
          print(str[-4])
          print(str[-5])
        0
        1
        1
        e
        h
In [30]: str[2:4]
Out[30]: '11'
In [31]:
         str[::3]
Out[31]: 'hl'
          update and delete
In [32]:
         str="good morning"
Out[32]: 'good morning'
In [33]: str[0:5]='HLW'
                                                   Traceback (most recent call last)
        TypeError
        Cell In[33], line 1
        ----> 1 str[0:5]='HLW'
        TypeError: 'str' object does not support item assignment
In [35]: str[2:5]='H','1'
```

```
TypeError
                                                 Traceback (most recent call last)
        Cell In[35], line 1
        ----> 1 str[2:5]='H','1'
       TypeError: 'str' object does not support item assignment
In [36]: del str
         print(str)
        <class 'str'>
In [37]: str1="hello"
         str2="python"
         print(str1+str2)
        hellopython
In [39]: True+False
Out[39]: 1
In [41]: True+True
Out[41]: 2
In [42]: False+False
Out[42]: 0
In [43]: False+True
Out[43]: 1
In [44]: 1 & 1
Out[44]: 1
In [45]: 1 & 0
Out[45]: 0
In [46]: 1 & 1
Out[46]: 1
In [47]: 0 & 1
Out[47]: 0
In [ ]:
```