Numbers and Strings

```
In [1]:  4
```

Out[1]: 4

```
In [2]:  4 + 18
```

Out[2]: 22

```
In [4]:  5 + 18
```

Out[4]: 23

```
In [6]:  5 + 20
```

Out[6]: 25

```
In [7]:  4 * 18
```

Out[7]: 72

```
In [8]:  18 / 4
```

Out[8]: 4.5

```
In [9]:  18 / 6
```

Out[9]: 3.0

```
In [10]:  int(18 / 6)
```

Out[10]: 3

```
In [11]:  int(18/4)
```

Out[11]: 4

```
In [12]:  21 % 4
```

Out[12]: 1

```
In [13]:  21 % 3
```

Out[13]: 0

```
In [14]:  2 ** 2
```

Out[14]: 4

```
In [15]: 2 ** 3
```

```
Out[15]: 8
```

```
In [16]: 21 / 4
```

```
Out[16]: 5.25
```

```
In [3]: 21 // 4
```

```
Out[3]: 5
```

```
In [4]: print(7 * 2.0)
```

```
14.0
```

```
In [5]: print(9//2)
```

```
4
```

```
In [13]: pizza_price = 140
         pizza_num = 12
         doogh_price = 400
         doogh_number = 6
         ja_price = 4850
         ja_number = 3
```

```
In [14]: kolle_kharj = (pizza_price * pizza_num) + (doogh_price * doogh_number ) + (ja_price
```

```
In [15]: print(kolle_kharj)
```

```
18630
```

```
In [16]: a = 'Erfan'
```

```
In [17]: a = a + a
```

```
In [18]: a
```

```
Out[18]: 'ErfanErfan'
```

```
In [21]: r = 6.5
         p = 3.14
         Masahat = p * (r**2)
         print(Masahat)
```

```
132.665
```

```
In [22]: x = 10
         y = 5
         z = x + y
         print(z)
```

```
15
```

In [23]:
```python
name = "Ali"
age = 25
print(name, age)
```

Ali 25

In [3]:
```python
Name = "Erfan"
LastName = "Najafi"
print("Hello " + Name + " " +LastName)
```

Hello Erfan Najafi

In [4]:
```python
VideoGame = "Last Of Us"
```

In [5]:
```python
VideoGame
```

Out[5]: 'Last Of Us'

In [6]:
```python
VideoGame[3]
```

Out[6]: 't'

In [9]:
```python
VideoGame[5:7]
```

Out[9]: 'Of'

In [10]:
```python
VideoGame[-1]
```

Out[10]: 's'

In [11]:
```python
VideoGame[-2]
```

Out[11]: 'U'

In [16]:
```python
NumbersForList = "0123456789"
```

In [17]:
```python
NumbersForList
```

Out[17]: '0123456789'

In [18]:
```python
NumbersForList[4]
```

Out[18]: '4'

In [19]:
```python
NumbersForList[2:6]
```

Out[19]: '2345'

In [21]:
```python
NumbersForList[2:9:2]
```

Out[21]: '2468'

In [25]:
```python
NumbersForList[1:9:2]
```

```
Out[25]:  '1357'
```

```
In [26]:  NumbersForList[3:]
```

```
Out[26]:  '3456789'
```

```
In [27]:  NumbersForList[::]
```

```
Out[27]:  '0123456789'
```

```
In [28]:  NumbersForList[::-1]
```

```
Out[28]:  '9876543210'
```

```
In [30]:  """Hi my name is Erfan
          I'm programmer and also tattoo artist
          Thnks for listening to me"""
```

```
Out[30]:  "Hi my name is Erfan\nI'm programmer and also tattoo artist\nThnks for listening t
          o me"
```

```
In [33]:  Text1 = "Hi this is a text abot how live \"PLEASE BE KINE WHIT PEOPLE\""
```

```
In [34]:  print(Text1)
```

```
          Hi this is a text abot how live "PLEASE BE KINE WHIT PEOPLE"
```

```
In [49]:  Game = "iran"
```

```
In [50]:  Game
```

```
Out[50]:  'iran'
```

```
In [51]:  Game = "I" + Game[1:]
```

```
In [52]:  Game
```

```
Out[52]:  'Iran'
```

```
In [53]:  Game = Game[0:2] + "A" + Game[-1]
```

```
In [54]:  Game
```

```
Out[54]:  'IrAn'
```

```
In [55]:  Village = "Irag"
```

```
In [56]:  Village.upper()
```

```
Out[56]:  'IRAG'
```

```
In [57]:  Village
```

Out[57]: 'Irag'

In [58]: ```python
Village = Village.upper()
```

In [59]: ```python
Village
```

Out[59]: 'IRAG'

In [60]: ```python
Village.lower()
```

Out[60]: 'irag'

In [61]: ```python
Village
```

Out[61]: 'IRAG'

In [62]: ```python
Village = Village.lower()
```

In [63]: ```python
Village
```

Out[63]: 'irag'

In [65]: ```python
Village.index("a")
```

Out[65]: 2

In [73]: ```python
try:
    print(Village.index("as"))
except:
    print("We Don't have")
```

We Don't have

In [74]: ```python
WhatErfanLikes = "Bita, Video Game, Programming,Story,TQ"
```

In [75]: ```python
WhatErfanLikes
```

Out[75]: 'Bita, Video Game, Programming,Story,TQ'

In [76]: ```python
WhatErfanLikes.split(",")
```

Out[76]: ['Bita', ' Video Game', ' Programming', 'Story', 'TQ']

In [77]: ```python
ListOfLike = WhatErfanLikes.split(",")
```

In [78]: ```python
type(ListOfLike)
```

Out[78]: list

In [79]: ```python
ListOfLike[0]
```

Out[79]: 'Bita'

```
In [80]:  Name
```

```
Out[80]:  'Erfan'
```

```
In [81]:  LastName
```

```
Out[81]:  'Najafi'
```

```
In [84]:  print("Hello %s %s" %(Name, LastName))
```

```
          Hello Erfan Najafi
```

```
In [85]:  age = 24
```

```
In [86]:  print("Hello %s %s you are %i" %(Name, LastName, age))
```

```
          Hello Erfan Najafi you are 24
```

```
In [88]:  print("Hello {} {} you are {}".format(Name, LastName, age))
```

```
          Hello Erfan Najafi you are 24
```

```
In [89]:  print("Last Name : {1}\nFiest Name : {0}\nAge : {2}".format(Name,LastName,age))
```

```
          Last Name : Najafi
          Fiest Name : Erfan
          Age : 24
```

```
In [91]:  Game1 = "Gta v"
          Game2 = "Rianbow"
          Game3 = "Call of duty"
```

```
In [93]:  print("My fivarot game is {G1} then {G2} and finally {G3}".format(G1=Game3,G2=Game1
```

```
          My fivarot game is Call of duty then Gta v and finally Rianbow
```

```
In [95]:  print("This is number you like = {Nu:1.1f}".format(Nu = 4.32455655)) #when you use
```

```
          This is number you like = 4.3
```

```
In [98]:  age = 24.5645445
```

```
In [99]:  print(f"Last Name : {LastName}\nFiest Name : {Name}\nAge : {age}")
```

```
          Last Name : Najafi
          Fiest Name : Erfan
          Age : 24.5645445
```

```
In [102…  print(f"Last Name : {LastName}\nFiest Name : {Name}\nAge : {age:1.1f}")
```

```
          Last Name : Najafi
          Fiest Name : Erfan
          Age : 24.6
```

```
In [103…  Name
```

```
Out[103…  'Erfan'
```

In [106…   ```python
            Name.count
            ```

Out[106…    `<function str.count>`

In [107…    ```python
            len(Name)
            ```

Out[107…   5

In [108…   ```python
            len(LastName)
            ```

Out[108…    6

In [109…    ```python
            text = "Python"
            print(text[-1])
            ```

            n

In [113…   ```python
            # Ex : استفاده از متد رشته خروجی دهد lower case کدی بنویسید که رشته زیر را در ابتدا به شکل
            #x = 'Hi this is a string'

            x = 'Hi this is a string'
            x = x.lower()
            x = x.split(" ")
            print(x)
            ```

            ['hi', 'this', 'is', 'a', 'string']