```
In [3]: spam=1
         spam
 Out[3]: 1
In [4]: 2+2
 Out[4]: 4
 In [5]: 50-5*6
 Out[5]: 20
In [6]: (50-5*6)/4
 Out[6]: 5.0
 In [7]: 8/3
 Out[7]: 2.66666666666665
 In [8]: 8//3
 Out[8]: 2
 In [9]: 5*3+2
Out[9]: 17
In [10]: 5**2
Out[10]: 25
In [11]: 2**7
Out[11]: 128
In [12]: width=20
         height=5*9
         area=width*height
Out[12]: 900
In [13]: 4*3.75-1
Out[13]: 14.0
In [14]: tax=12.5/100
         price=100.50
         price*tax
```

Out[14]: 12.5625

```
In [ ]: price=10
In [ ]: tax=12
In [15]: price*tax
Out[15]: 12.5625
In [16]: price+_
Out[16]: 113.0625
In [17]: round(_,2)
Out[17]: 113.06
In [18]: 'doesn\'t'
Out[18]: "doesn't"
In [23]: s=('arun.\nsahu.')
In [24]: print(s)
        arun.
        sahu.
         #exponential e0=1.0 e1=10.0 e2=100.0 e3=1000.0
 In [1]: f=1e0
 Out[1]: 1.0
 In [2]: f1=2e1
         f1
 Out[2]: 20.0
 In [3]: f2=2.4e2
 Out[3]: 240.0
 In [5]: f3=2.5e3
 Out[5]: 2500.0
 In [6]: type(f3)
Out[6]: float
In [12]: i=40
```

```
Out[12]: 40
In [13]: id(i)
Out[13]: 140709183924568
In [15]:
         p=30
         q=30
         r=30
         print(id(p))
         print(id(q))
         print(id(r))
       140709183924248
       140709183924248
       140709183924248
         string indexing
In [16]: str='hello'
         str
Out[16]:
         'hello'
        str[0]
In [17]:
Out[17]: 'h'
```

```
In [18]: str[1]
Out[18]: 'e'
In [19]:
         str
Out[19]: 'hello'
In [21]:
         print(str[0])
          print(str[1])
          print(str[2])
          print(str[3])
          print(str[4])
        h
        e
        1
        1
        0
In [22]:
Out[22]: 'hello'
In [23]:
         print(str[-1])
          print(str[-2])
          print(str[-3])
```

```
print(str[-4])
         print(str[-5])
        0
        1
        1
In [24]: str
Out[24]: 'hello'
         #len function
In [25]: len(str)
Out[25]: 5
         #SLICING IT DENOTED AS: forward slicing backward slicing step slicing
In [26]: str
Out[26]: 'hello'
In [27]: str[1:3]
Out[27]: 'el'
In [28]: str='welcome'
Out[28]: 'welcome'
In [29]: str[2:4]
Out[29]: 'lc'
In [30]: str[0:4]
Out[30]: 'welc'
In [32]: str[0:6]
Out[32]: 'welcom'
         step slicing
In [34]: s='hellopython'
Out[34]: 'hellopython'
```

In [35]: s[0:10:3]

```
Out[35]: 'hlyo'
In [36]: s[0:10:2]
Out[36]: 'hloyh'
In [37]: s
Out[37]: 'hellopython'
In [38]: s[::1]
Out[38]: 'hellopython'
In [39]: s[::2]
Out[39]: 'hloyhn'
In [41]: s
Out[41]: 'hellopython'
In [43]: s[1:8:2]
Out[43]: 'elpt'
In [44]: s
Out[44]: 'hellopython'
In [46]: s[1:7:1]
Out[46]: 'ellopy'
In [47]: s[:]
Out[47]: 'hellopython'
In [48]: s[::3]
Out[48]: 'hlyo'
In [49]: a='arun'
         b='sahu'
         print(a+b)
        arunsahu
In [50]: a='arun kumar'
         b=' sahu'
         print(a+b)
        arun kumar sahu
 In [ ]:
```