ARITHMATIC OPERATIONS

In [32]: 9+9 -10*3 -3

```
Out[32]: -15
In [34]: # 9 , 9,10 , 3 , 3 == operend
         # +,-== operator
        the numbers are called as operend
        the -+*/ are called as operator
        Arithmatic operators
In [38]: 7*7
         # MULTIPLICATION
Out[38]: 49
In [40]: 7**7
         # POWER
Out[40]: 823543
In [42]: 7***7
         Cell In[42], line 1
           7***7
       SyntaxError: invalid syntax
In [44]: 10/4
         #float division
Out[44]: 2.5
In [46]: 10 // 4
         # intiger division
Out[46]: 2
In [48]: 10%5
         #modulas
Out[48]: 0
```

```
In [50]: 10%%5
          Cell In[50], line 1
            10%%5
        SyntaxError: invalid syntax
In [52]: #ASSIGNMENT OPERATOR
In [54]: x= 10
         x is called object or variable or identifiers
         x =variable
         10= value
         Cell In[54], line 2
           x is called object or variable or identifiers
        SyntaxError: invalid syntax
In [56]:
        x = 10
In [58]:
         x+2
Out[58]: 12
In [60]:
         x+2
Out[60]: 12
         incremental assignment
In [63]: x += 2
         Х
Out[63]: 12
In [65]: x += 2
Out[65]: 14
         decremental assignment
In [68]: x-=2
         Χ
Out[68]: 12
In [70]:
         x^*=2
         Х
```

```
# modify the x
Out[70]: 24
In [72]: x * 2
         # just gives operation value
Out[72]: 48
In [74]: x*=2
Out[74]: 48
In [76]: x/=2
         Χ
Out[76]: 24.0
In [78]: x/=2
Out[78]: 12.0
In [80]: # UNARY OPERATOR
In [82]: n=7
         m=-(n)
Out[82]: -7
         string
In [85]: "nareshit"
         s= "nareshit"
Out[85]: 'nareshit'
In [87]: len(s)
Out[87]: 8
```

idexing & slicing

In [90]: s[5]

```
Out[90]: 'h'
 In [92]:
           s[7]
Out[92]: 't'
           for i in s:
 In [94]:
               print (i)
         n
         а
         e
         S
         h
         i
         t
In [96]:
           s[0:5]
 Out[96]:
           'nares'
 In [98]:
           s[::1]
Out[98]:
           'nareshit'
In [100...
           s[::-1]
Out[100...
           'tihseran'
In [102...
           s[-1]
           't'
Out[102...
In [104...
           #Count starts from 0_1_2
           #reverse count starts form -1_-2
In [106...
           # formula used is (n-1)
In [108...
           language = "python"
In [110...
           a,b,c,d,e,f=language
           print(a,b,c,d,e,f)
In [112...
         python
In [114...
           for i in language:
               print(i)
```

```
У
         t
         h
         0
         n
           print('''I am studying in
In [116...
           naresh it
           with Prakash senapathi sir''')# ''' are used for mutiple line string
         I am studying in
         naresh it
         with Prakash senapathi sir
           print('I hope every one enjoying the python challenge.\nDo you ?')
In [118...
         I hope every one enjoying the python challenge.
         Do you?
In [120...
           print('Days\tTopics\tExercises')
         Days
                 Topics Exercises
In [122...
          print('Day 1\t3\t5')
         Day 1
                 3
                          5
In [124...
          #String Concatenation
           first_name = 'Pratik'
           last_name = 'Sadewad'
           space=' '
           full_name = first_name + space + last_name
           print(full name)
         Pratik Sadewad
           challenge = 'thirty days of python'
In [126...
           print(challenge.capitalize())
         Thirty days of python
In [128...
           challenge.title()
           'Thirty Days Of Python'
Out[128...
           challenge.count('y'),challenge.count('d') # no. of times letters present in
In [142...
Out[142...
           (3, 1)
In [146...
           challenge
           'thirty days of python'
Out[146...
In [148...
           challenge.isalnum() # al = alfa-numeric i.e aA10 = True, space !@#$%% = Fa
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Out[148...
           False
In [150...
           challenge='thirtydaysofpython'
           challenge.isalnum()
In [152...
Out[152...
           True
           challenge = 'thirty days of python'
In [156...
           challenge= 'thirty'
In [160...
           print(challenge.isdigit())
         False
In [174...
           name=['pratik','praksah','sadewad']#skips Last string
           result='@ '.join(name)
In [176...
           result
           'pratik@ praksah@ sadewad'
Out[176...
In [182...
           challenge
           ' thirty days of python '
Out[182...
           challenge.replace('python','coding')
In [192...
           ' thirty days of coding '
Out[192...
In [196...
           challenge.split()
           ['thirty', 'days', 'of', 'python']
Out[196...
           name = "pratik prakash sadewad"# usefull
In [198...
           name.split()
           ['pratik', 'prakash', 'sadewad']
Out[198...
```

In []: