```
In [21]: #string selection from start point to the given end point
         title = 'Amazing'
         print(title[0:5])
         Amazi
In [17]: #entire string with start point but no end reference
         title = 'Amazing'
         print(title[2:])
         azing
In [18]: | #entire string with no start reference but with end point
         title = 'Amazing'
         print(title[:5])
         Amazi
In [27]: | #string with start reference and dynamic end point
         title = 'Amazing'
         print(title[2:-2])
         azi
In [20]: #veriable copy and print
         title = 'Amazing'
         Category = title[:]
         print(Category)
         Amazing
In [29]: #veriable methods upper/lower
         title = 'Amazing'
         print(title.lower())
         amazing
In [42]: # fuction producses text in proper case"
         title = 'Amazing Day'
         print('title'.title())
         Title
In [30]: #veriable methods replace
         title = 'Amazing'
         print(title.replace('Amazing', 'Amazing Day'))
         Amazing Day
```

```
In [33]: #veriable methods find returns index of the length
         title = 'Amazing Day'
         print(title.find('ing'))
In [41]: | # producses boolean value "true or false"
         title = 'Amazing Day'
         print('Day' in title)
         True
In [43]: #Operators division returs float
         print(10 / 3)
         3.333333333333333
In [44]: #Operators division returs int
         print(10 // 3)
         3
In [45]: #Operators division modulis returs remainder
         print(10 % 3)
         1
In [48]: | #Operators multiplication
         print(10 * 3)
         30
In [54]: #Operators power
         print(2 ** 3)
         8
In [51]: #Operators augmented/incremented assignment
         x = 10
         x += 3
         print(x)
         13
```

```
In [55]:
         #operators calculations
         #1-parenthesis
         #2-exponentiation
         #3-multiplication or division
         #4-addition or substraction
         x=(10+2) * 2 ** 3
         print(x)
         96
In [56]: | #Math fuctions round off
         x = 5.4
         print(round(x))
         5
In [57]: #Math fuctions ABS-absolute returns positive number
         x = -5.4
         print(abs(x))
         5.4
In [58]: #Math module for using built in calculations used as math.
         import math
         math.
In [66]: | #for Loop for known criteria with start, end and step value
         for i in range(10,0,-1):
              print(i)
         10
         9
         8
         7
         6
         5
         4
         3
         2
         1
```

```
In [67]:
          #While Loop unknown criteria
           number=int(input("enter number"))
           rating=1
           while rating<=10:</pre>
               product=number*rating
               print(number, 'x', rating, '=', product)
               rating=rating+1
           enter number2
           2 \times 1 = 2
           2 \times 2 = 4
           2 \times 3 = 6
           2 \times 4 = 8
           2 \times 5 = 10
           2 \times 6 = 12
           2 \times 7 = 14
          2 \times 8 = 16
           2 \times 9 = 18
          2 \times 10 = 20
In [68]: number=int(input("enter number"))
           rating=1
           while rating<=number:</pre>
               product=number*rating
               print('Test')
               rating=rating+1
           enter number5
          Test
          Test
          Test
          Test
           Test
 In [ ]: #If Statements
```