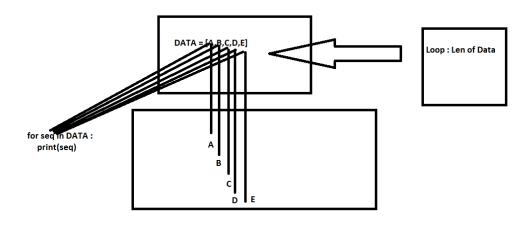
It Is Used For Sequential Traversal

Syntax



```
In [1]: | name = "ALLEN"
In [2]:
        name[0]
Out[2]:
In [3]: for k in name:
            print("Char Is :",k)
        Char Is : A
        Char Is: L
        Char Is: L
        Char Is : E
        Char Is: N
In [3]: stud = ["Mike","Luke","Jack","Peter","Finn"]
        for name in stud:
            print(f"Stud Name Is : {name}")
        Stud Name Is: Mike
        Stud Name Is: Luke
        Stud Name Is : Jack
        Stud Name Is: Peter
        Stud Name Is : Finn
```

```
In [4]:
    a = 0
    stud = ["Mike","Luke","Jack","Peter","Finn"]
    for name in stud:
        print(a,f" => Stud Name Is : {name}")
        a+=1

0 => Stud Name Is : Mike
1 => Stud Name Is : Luke
2 => Stud Name Is : Jack
3 => Stud Name Is : Peter
4 => Stud Name Is : Finn
```

Char Value With Index Num

```
In [4]: a = 0
    for k in name:
        print(a," => Char Is :",k)
        a+=1

0 => Char Is : A
1 => Char Is : L
2 => Char Is : L
3 => Char Is : E
4 => Char Is : N
```

Gives Colors For Chars

```
In [5]: from colorama import *

In [6]: 
    a = 0
    for k in name:
        print(a,Fore.GREEN+" => Char Is :",k,Style.RESET_ALL)
        a+=1

    0 => Char Is : F
    1 => Char Is : i
    2 => Char Is : n
    3 => Char Is : n
In [7]: import simple_colors as color
```

Give Green And Red Color For Even And Odd Pos Of Stud Data

```
0 => Stud Is : Mike
         1 => Stud Is : Luke
         2 => Stud Is : Jack
         3 => Stud Is : Peter
         4 => Stud Is : Finn
In [13]: msg = input("Enter Msg :")
         print()
         for k in msg:
             print(k)
         Enter Msg : We Are Learning Python.
         W
         e
         Α
         e
         L
         e
         а
         r
         n
         n
         g
         Ρ
         У
         t
         h
         n
In [14]: | msg = input("Enter Msg :")
         print()
         for k in msg:
             print(k,end="")
         Enter Msg : We Are Learning Python.
         We Are Learning Python.
In [16]: msg = input("Enter Msg :")
         print()
         for k in msg:
             print(k,end=" ")
         Enter Msg : We Are Learning Python.
         We Are Learning Python.
In [11]: msg = input("Enter Msg :")
         print()
         for k in msg:
             print(k,end= " ")
```

```
Enter Msg :Hello Mike
H e l l o M i k e
```

Delay Time

Use: time Module

```
In [18]: import time
                      Dealy : time.sleep(num(sec))
In [19]:
        print("Data Is Coming In 10 Seconds....")
         time.sleep(10)
         print(stud)
        Data Is Coming In 10 Seconds....
         ['Mike', 'Luke', 'Jack', 'Peter', 'Finn']
In [20]:
        msg = input("Enter Msg :")
         print()
         for k in msg:
            print(k,end= " ")
            time.sleep(0.5)
        Enter Msg : We Are Learning Python.
        We Are Learning Python.
In [21]: msg = input("Enter Msg :")
         print()
         for k in msg:
            print(Fore.GREEN+k,end= " ")
            time.sleep(0.5)
        Enter Msg : We Are Learning Python.
        We Are Learning Python.
```

Give Green And Red Color At Even And Odd Index Num With Dealy of Time

```
In [23]: msg = input("Enter Msg :")
    print()
    for k in range(len(msg)):
        print(f"Index Num Is : {k}")
```

```
Enter Msg : We Are Learning Python.
         Index Num Is : 0
         Index Num Is : 1
         Index Num Is : 2
         Index Num Is : 3
         Index Num Is: 4
         Index Num Is : 5
         Index Num Is: 6
         Index Num Is : 7
         Index Num Is : 8
         Index Num Is : 9
         Index Num Is: 10
         Index Num Is: 11
         Index Num Is : 12
         Index Num Is : 13
         Index Num Is: 14
         Index Num Is : 15
         Index Num Is: 16
         Index Num Is: 17
         Index Num Is : 18
         Index Num Is : 19
         Index Num Is : 20
         Index Num Is : 21
         Index Num Is : 22
In [25]:
         msg = input("Enter Msg :")
         print()
         for k in range(len(msg)):
             if k%2==0:
                  print(k,color.green(f" => Char Is : {msg[k]}",'bold'))
                  print(k,color.red(f" => Char Is : {msg[k]}",'bold'))
             time.sleep(0.5)
```

```
Enter Msg : We Are Learning Python.
         0 => Char Is : W
         1 => Char Is : e
         2 => Char Is :
         3 => Char Is : A
         4 => Char Is : r
         5 => Char Is : e
         6 => Char Is :
         7 => Char Is : L
         8 => Char Is : e
         9 => Char Is : a
         10 => Char Is : r
         11 => Char Is : n
         12 => Char Is : i
         13 => Char Is : n
         14 => Char Is : g
         15 => Char Is :
         16 => Char Is : P
         17 => Char Is : y
         18 => Char Is : t
         19 => Char Is : h
         20 => Char Is : o
         21 => Char Is : n
         22 => Char Is : .
In [28]:
         msg = input("Enter Msg :")
         print()
         for k in range(len(msg)):
             if k%2==0:
                 print(color.green(f"{msg[k]}",'bold'),end="")
                 print(color.red(f"{msg[k]}",'bold'),end="")
             time.sleep(0.5)
         Enter Msg : We Are Learning Python.
         We Are Learning Python.
                      Task1 : Space => Remove
                      Task2 : Space => Black
         a = 0
In [32]:
         msg = "Mike And Jack"
         for k in msg:
             if k==" ":
                 print(a," => Space Is :",k)
             a+=1
         4 => Space Is:
         8 => Space Is:
In [38]:
         msg = "Mike And Jack"
         for k in msg:
             if k==" ":
                 msg= msg.replace(k,"@")
         print("Msg Is :",msg)
```

```
Msg Is : Mike⊌And⊌Jack
```

Remove Space

```
In [39]:
         msg = "Mike And Jack"
          for k in msg:
             if k==" ":
                  msg= msg.replace(k,"")
          print("Msg Is :",msg)
         Msg Is : MikeAndJack
In [40]: range(10)
         range(0, 10)
Out[40]:
In [41]: type(range)
Out[41]: type
In [42]: type(range(10))
         range
Out[42]:
In [19]: list(range(10))
Out[19]: [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
In [20]: |list(range(2,21,2))
Out[20]: [2, 4, 6, 8, 10, 12, 14, 16, 18, 20]
In [21]: range(len(msg))
Out[21]: range(0, 21)
In [43]: name = "Finn Allen"
In [44]: list(range(len(name)))
Out[44]: [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
```

Create A Char Data According To Given Range

```
In [46]: range_data = range(int(input("Enter Range To Create Data :")))
    range_data

Enter Range To Create Data :25
    range(0, 25)
```

```
In [50]: def generate_char_data(start_index, end_index):
             char data = []
             for index in range(start_index, end_index + 1):
                  char_data.append(chr(index))
              return char_data
         start_index = 65
         end_index = 90
         result = generate_char_data(start_index, end_index)
         ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P', 'Q
          ', 'R', 'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z']
In [53]: def generate_char_data(start_index, end_index):
             char_data = []
             for index in range(start_index, end_index + 1):
                  char_data.append(chr(index))
              return char data
          start index = int(input("Enter Start Num :"))
         end_index = int(input("\nEnter Stop Num :"))
         result = generate_char_data(start_index, end_index)
         print(result)
         Enter Start Num :97
         Enter Stop Num :122
         ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p', 'q
          ', 'r', 's', 't', 'u', 'v', 'w', 'x', 'y', 'z']
In [54]: alpha = ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O',
```

List Convert Into String

```
In [59]: space = " "
space.join(alpha)

Out[59]: 'A B C D E F G H I J K L M N O P Q R S T U V W X Y Z'
```

Skip Value At Odd Index Num

```
In [49]: stud = ['Mike', 'Luke', 'Jack', 'Peter', 'Finn', 'Nile', 'Allen', 'Jacob']
out[49]: ['Mike', 'Luke', 'Jack', 'Peter', 'Finn', 'Nile', 'Allen', 'Jacob']
In [60]: for k in range(len(stud)):
    if k % 2 ==0:
        print(k," => Stud Is :",stud[k])
```

```
0 => Stud Is : Mike
           2 => Stud Is : Jack
           4 => Stud Is : Finn
           6 => Stud Is : Allen
In [61]: | def generate_char_data(start_index, end_index):
               char_data = []
               for index in range(start_index, end_index + 1):
                    char_data.append(chr(index))
               return char_data
           start_index = int(input("Enter Start Num :"))
           end_index = int(input("\nEnter Stop Num :"))
           result = generate_char_data(start_index, end_index)
           print(result)
           Enter Start Num :1
           Enter Stop Num :250
           ['\x01', '\x02', '\x03', '\x04', '\x05', '\x06', '\x07', '\x08', '\t', '\n', '\x0b', '\x0c', '\r', '\x0e', '\x10', '\x11', '\x12', '\x13', '\x14', '\x15', '\
           x16', '\x17', '\x18', '\x19', '\x1a', '\x1b', '\x1c', '\x1d', '\x1e', '\x1f', ' ', '!', '"', '#', '$', '%', '&', "'", '(', ')', '*', '+', ',', '-', '.', '/', '0', '1
             '2', '3', '4', '5', '6', '7', '8', '9', ':', ';', '<', '=', '>', '?', '@', 'A',
           'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P', 'Q', 'R
             'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z', '[', '\\', ']', <sup>'</sup>\^', <sup>'</sup>'_', <sup>'\</sup>', <sup>'</sup>a', <sup>'</sup>b',
           'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p', 'q', 'r', 's
           ', 't', 'u', 'v', 'w', 'x', 'y', 'z', '{', '|', '}', '~', '\x7f', '\x80', '\x81', '\x82', '\x83', '\x84', '\x85', '\x86', '\x87', '\x88', '\x89', '\x86', '\x
           8c', '\x8d', '\x8e', '\x8f', '\x90', '\x91', '\x92', '\x93', '\x94', '\x95', '\x96
             '\x97', '\x98', '\x99', '\x9a', '\x9b', '\x9c', '\x9d', '\x9e', '\x9f', '\xa0',
```

Delete Value At Odd Pos of Data Permanamt

'ố', 'ố', 'ố', 'ố', '÷', 'ø', 'ù', 'ú']

```
In [74]: data=["Hello","Hye","Good bye"]
for k in range(len(data)):
    if k%2==0:
        print(k,data[k])
    else:
        del(data[k])
    print("\nUpdated Data Is :",data)
0 Hello
2 Good bye
```

'Ò', 'Ó', 'Ô', 'Õ', 'Ö', 'x', 'Ø', 'Ù', 'Ú', 'Û', 'Ü', 'Ý', 'Þ', 'ß', 'à', 'á', 'â ', 'ã', 'ä', 'å', 'æ', 'ç', 'è', 'é', 'ê', 'ë', 'ì', 'í', 'î', 'ï', 'ð', 'ñ', 'ò',

```
IndexError
                                                    Traceback (most recent call last)
          Input In [74], in <cell line: 2>()
                          print(k,data[k])
                5
                      else:
                          del(data[k])
          ---> 6
                7 print("\nUpdated Data Is :",data)
          IndexError: list assignment index out of range
In [75]:
         data
         ['Hello', 'BYE', 'Good bye']
Out[75]:
          data=["Hello","Hye","BYE","Good bye"]
In [67]:
          for k in range(len(data)):
              if k%2==0:
                  print(k,data[k])
              else:
                  print(color.red(f"Odd Index Is : {k} ==> Value Is : {data[k]}"))
          print("\nUpdated Data Is :",data)
         0 Hello
         Odd Index Is : 1 ==> Value Is : Hye
          2 BYE
         Odd Index Is : 3 ==> Value Is : Good bye
         Updated Data Is : ['Hello', 'Hye', 'BYE', 'Good bye']
         data=["Hello","Hye","BYE","Good bye"]
In [73]:
          for k in range(len(data)):
              if k%2==0:
                  print(k,data[k])
              else:
          #
                    print(color.red(f"Odd Index Is : {k} ==> Value Is : {data[k]}"))
                    data.pop(k)
                    print(k)
          print("\nUpdated Data Is :",data)
          0 Hello
          1
          2 BYE
          3
         Updated Data Is : ['Hello', 'Hye', 'BYE', 'Good bye']
         ab = ["Mike", "Sean"]
In [69]:
          del(ab[0])
          ab
Out[69]: ['Sean']
```

```
In [64]:
         stud=["Mike","Luke","Jack","Peter","Finn"]
         for a in range(len(stud)):
             if a%2 != 0:
                  stud.remove(stud[a])
         print(stud)
         ['Mike', 'Jack', 'Peter']
         Fetch The Data
In [76]: data = ["Python","Java","C","C++","HTML"]
In [77]: | filter_data = input("Enter The Filter Data :")
         for k in data:
             if k==filter_data:
                  print("\nData Found..")
         Enter The Filter Data : Python
         Data Found..
In [78]:
         filter_data = input("Enter The Filter Data :")
         for k in data:
             if k==filter_data:
                  print("\nData Found..")
             else:
                 print("\nPls Try Again.")
         Enter The Filter Data : Python
         Data Found..
         Pls Try Again.
         Pls Try Again.
         Pls Try Again.
         Pls Try Again.
              Result Loop : Break
         Break Statement
In [79]:
         filter_data = input("Enter The Filter Data :")
         for k in data:
             if k==filter_data:
                  print("\nData Found..")
```

else:

break

print("\nPls Try Again.")

```
Enter The Filter Data : Python
         Data Found..
In [80]:
         filter_data = input("Enter The Filter Data :")
          for k in data:
              if k==filter_data:
                  print("\nData Found..")
              else:
                  print("\nPls Try Again.")
                  break
         Enter The Filter Data :MySQL
         Pls Try Again.
         alpha = ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O',
In [81]:
          alpha = alpha[::2]
          print("Data with values at odd indices deleted:", alpha)
         Data with values at odd indices deleted: ['A', 'C', 'E', 'G', 'I', 'K', 'M', 'O', '
         Q', 'S', 'U', 'W', 'Y']
In [84]: msg = "I AM LEARNING PYTHON.MIKE IS GOING TO DELHI."
          char = input("Enter Char :")
          for k in msg:
              if k ==char:
                  print("")
                  print(char, "Is : ", msg.count(char))
                  break
              else:
                  print("\nNo Char Found..")
         Enter Char :Z
         No Char Found..
         msg = "I AM LEARNING PYTHON.MIKE IS GOING TO DELHI."
In [87]:
          char = input("Enter Char :")
          for k in msg:
              if k==char:
                  print("")
                  print(char, "Is : ", msg.count(char))
                  break
              else:
                  print("\nNo Char Found..")
                  break
         Enter Char :I
         I Is : 6
In [88]: msg.count("A")
Out[88]:
```

Count Perticular Chars

Count The Word

```
In [108...
          data = input("Enter Message : ").split()
          char = input("Enter character to be counted : ")
          count = 0
          for i in data:
              if i == char:
                  count = count + 1
          print(f"Count of {char} is : ",count)
          Enter Message : Sean And Mike Mike And Jack.
          Enter character to be counted : Mike
          Count of Mike is: 2
          data
In [109...
          ['Sean', 'And', 'Mike', 'Mike', 'And', 'Jack.']
Out[109]:
In [22]:
          msg
Out[22]: ['Sean', 'Is', 'Coming.', 'Sean', 'Is', 'Learning', 'Python.']
 In [1]: | name = ["Sean","Jack","Luke","Mike","Finn"]
          age = [15,16,15,16,10]
```

```
name = ["Sean", "Jack", "Luke", "Mike", "Finn"]
In [110...
          age = [15, 16, 15, 16, 10]
          dic = dict(zip(name, age))
          print(dic)
          {'Sean': 15, 'Jack': 16, 'Luke': 15, 'Mike': 16, 'Finn': 10}
          name = ["Sean","Jack","Luke","Mike","Finn"]
In [111...
          age = [15,16,15,16,10]
          data={}
          i=0
          for key in name:
              data[key]=age[i]
              i+=1
          print(data)
          {'Sean': 15, 'Jack': 16, 'Luke': 15, 'Mike': 16, 'Finn': 10}
          ==> Make Statements From 65 To 122 Number According To User.
          ==> Find Special Char, Number, Char, Bool And Emoji From Given Data.
              Data = "Sean@gmail.comMike Is 😛 .Password Is
              25166@##.Okay!!100True"
          ==> Encode A Msg Using Input Function With Options :
              Decode By: Key And Passowrd
          ==> Make A Program Using While And For Loop.
          ==> Make A Program To Find Any Word From HTML And Text File.
          data = ["Mike",'26.56','True',"5j"]
In [112...
          for k in data:
              print(k," -> Type Is :",type(k))
          Mike -> Type Is : <class 'str'>
          26.56 -> Type Is : <class 'str'>
          True -> Type Is : <class 'str'>
          5j -> Type Is : <class 'str'>
          data = ['26.56','True',"5j"]
In [117...
          for k in data:
              print(k," -> Type Is :",type(eval(k)))
          26.56 -> Type Is : <class 'float'>
          True -> Type Is : <class 'bool'>
          5j -> Type Is : <class 'complex'>
```

```
data = "Sean@gmail.comMike Is @.Password Is 25166@##.Okay!!100True"
In [118...
          special_char_count = 0
          number_count = 0
          char_count = 0
          bool_count = 0
          emoji\_count = 0
          def is_emoji(char):
              emoji_range = (0x1F600, 0x1F64F)
              return ord(char) in range(*emoji_range)
          for char in data:
              if char.isalnum():
                  if char.isalpha():
                      char_count += 1
                  else:
                      number_count += 1
              elif char in "!@#$%^&*()_-+=<>?/,.:;{}[]|\\":
                  special_char_count += 1
              elif char == "True" or char == "False":
                  bool_count += 1
              elif is_emoji(char):
                  emoji_count += 1
          print("Special Characters:", special_char_count)
          print("Numbers:", number_count)
          print("Characters:", char_count)
          print("Booleans:", bool_count)
          print("Emojis:", emoji_count)
          Special Characters: 9
          Numbers: 8
          Characters: 36
          Booleans: 0
          Emojis: 1
          name = ["Sean","Jack","Luke","Mike","Finn"]
In [120...
          age = [15,16,15,16,10]
          print(name, age, sep="\n----\n")
          ['Sean', 'Jack', 'Luke', 'Mike', 'Finn']
          [15, 16, 15, 16, 10]
```

Create Data With Name And Age

```
Stud Is: Sean
        Stud Is : Jack
        Stud Is : Luke
        Stud Is: Mike
        Stud Is: Finn
        Age Is: 15
        Age Is: 16
        Age Is : 15
        Age Is: 16
        Age Is: 10
In [2]: for k in name:
            for j in age :
                 print(k,"Is",j,"Years Old.")
        Sean Is 15 Years Old.
        Sean Is 16 Years Old.
        Sean Is 15 Years Old.
        Sean Is 16 Years Old.
        Sean Is 10 Years Old.
        Jack Is 15 Years Old.
        Jack Is 16 Years Old.
        Jack Is 15 Years Old.
        Jack Is 16 Years Old.
        Jack Is 10 Years Old.
        Luke Is 15 Years Old.
        Luke Is 16 Years Old.
        Luke Is 15 Years Old.
        Luke Is 16 Years Old.
        Luke Is 10 Years Old.
        Mike Is 15 Years Old.
        Mike Is 16 Years Old.
        Mike Is 15 Years Old.
        Mike Is 16 Years Old.
        Mike Is 10 Years Old.
        Finn Is 15 Years Old.
        Finn Is 16 Years Old.
        Finn Is 15 Years Old.
        Finn Is 16 Years Old.
        Finn Is 10 Years Old.
In [4]: for k in name:
            for j in age :
                 print(k,"Is",j,"Years Old.")
                 break
        Sean Is 15 Years Old.
        Jack Is 15 Years Old.
        Luke Is 15 Years Old.
        Mike Is 15 Years Old.
        Finn Is 15 Years Old.
```

```
In [121...
          a = 0
          for k in name:
              for j in age :
                  print(a,"=>",k,"Is",j,"Years Old.")
                   break
          0 => Sean Is 15 Years Old.
          1 => Jack Is 15 Years Old.
          2 => Luke Is 15 Years Old.
          3 => Mike Is 15 Years Old.
          4 => Finn Is 15 Years Old.
          zip()
 In [6]: zip(name,age)
 Out[6]: <zip at 0x180e5501040>
 In [7]:
          for k in zip(name,age):
              print(k)
          ('Sean', 15)
          ('Jack', 16)
          ('Luke', 15)
          ('Mike', 16)
          ('Finn', 10)
 In [8]: data = list(zip(name,age))
In [10]: data
          [('Sean', 15), ('Jack', 16), ('Luke', 15), ('Mike', 16), ('Finn', 10)]
Out[10]:
          range()
                       range(start,stop,step)
In [11]: range(10)
          range(0, 10)
Out[11]:
In [12]: for k in range(10):
              print(k)
```

```
0
         1
         2
          3
         4
         5
         6
         7
         8
         9
In [13]: | for k in range(10):
              print(k,end=" ")
         0 1 2 3 4 5 6 7 8 9
In [14]: lst = list(range(10))
In [15]: | lst
         [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
Out[15]:
In [16]: for k in range(2,21,2):
              print(k,end = " ")
          2 4 6 8 10 12 14 16 18 20
In [18]: | lst = []
          for k in range(500):
              if k%5==0:
                  lst.append(k)
          print("Final List Is :\n")
          print(lst)
         Final List Is :
         [0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100,
         105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 18
         5, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265,
         270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 35
         0, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430,
         435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495]
```

```
In [19]: ## str1 = "abnjeropsuilvsdabnjer"
            ## Find The Unique Values From Given String.
            ## Append The Single Char In A List.
            ## Make Two Words.
            ## Find The Vowels From Given String.
            ## Find The Consonant From Given String.
          ## Marks = {"Sean":560, "Mike":520, "Jenny":595, "Luke":500, "Finn":555}
            ## Take A Input And Get The Marks of Stud(Key) if Exist.
            ## Get The Marks With Percentage , Here Total Marks Is 600.
            ## Find The Max And Min Percentage.
            ## Find The Mean And Median.
          ## Make A Program about While And For Loop.
          ## Apply The For Loop Over The While Loop.
In [122...
          name
          ['Sean', 'Jack', 'Luke', 'Mike', 'Finn']
Out[122]:
          Even Pos => Green
          Odd Pos => Red
In [21]: len(name)
Out[21]: 5
In [22]: | from colorama import *
In [23]: | for k in range(len(name)):
              if k%2==0:
                  print(Fore.GREEN+name[k],end= " ")
                  print(Fore.RED+name[k],end= " ")
          Sean Jack Luke Mike Finn
          start = int(input("Enter The Starting Value :"))
          stop = int(input("\nEnter The Stopping Value :"))
          step = int(input("\nEnter The Step Value :"))
          print()
          for k in range(start,stop,step):
              print(k,end=" ")
          Enter The Starting Value :5
          Enter The Stopping Value :51
          Enter The Step Value :5
          5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
```

```
In [25]:
         Total Marks = 600
         Marks = {"Mike":500, "Jenny":590, "Luke":520, "Finn":550, "Allen":510}
In [27]: Stud_Name = input("Enter The Stud Name :")
          print("")
          index = 1
          for k in Marks:
              if k == Stud Name:
                  print(index,k,"-->",Marks[k])
                  opt = input("\nDo You Want To Get The Percentage ? :")
                  if opt=="Yes":
                      per = (Marks[k]/Total_Marks)*100
                      print("")
                      print(Stud_Name,'''Per Is :''',round(per),"%")
              index+=1
          else:
              print(Stud_Name,"Is Not Exist..")
         Enter The Stud Name : Jenny
         2 Jenny --> 590
         Do You Want To Get The Percentage ? :Yes
         Jenny Per Is : 98 %
In [28]:
         Stud_Name = input("Enter The Stud Name :")
          print("")
          index = 1
          for k in Marks:
              if k == Stud_Name:
                  print(index,k,"-->",Marks[k])
                  opt = input("\nDo You Want To Get The Percentage ? :")
                  if opt=="Yes":
                      per = (Marks[k]/Total_Marks)*100
                      print("")
                      print(Stud Name,'''Per Is :''',round(per),"%")
                  break
              index += 1
          else:
              print(Stud_Name,"Is Not Exist..")
         Enter The Stud Name : Peter
         Peter Is Not Exist..
```

```
In [30]:
         Stud Name = input("Enter The Stud Name :")
          print("")
          index = 1
          for k in Marks:
              if k == Stud_Name:
                  print(index,k,"-->",Marks[k])
                  opt = input("\nDo You Want To Get The Percentage ? :")
                  if opt=="Yes":
                      per = (Marks[k]/Total_Marks)*100
                      print("")
                      print(Fore.GREEN+Back.BLACK+Stud_Name,'''Per Is :''',round(per),"%")
              index += 1
              print(Stud_Name, "Is Not Exist..")
         Enter The Stud Name :Jenny
         2 Jenny --> 590
         Do You Want To Get The Percentage ? :Yes
         Jenny Per Is: 98 %
In [31]: Total_Marks = 600
         Marks = {"Mike":500, "Jenny":590, "Luke":520, "Finn":550, "Allen":510}
In [32]: for k in Marks:
              print(k)
         Mike
         Jenny
         Luke
         Finn
         Allen
In [33]: | Marks["Jenny"]
         590
Out[33]:
In [34]: alphabets = "ABEIJLMOUWRSTWXY"
In [36]:
         index = 0
          for k in alphabets:
              if k=="A" or k=="E" or k=="I" or k=="0" or k=="U":
                  print(index, "Vowel Letter Is : ", k)
                  index += 1
         0 Vowel Letter Is : A
         1 Vowel Letter Is : E
         2 Vowel Letter Is : I
         3 Vowel Letter Is: 0
         4 Vowel Letter Is : U
                             Vowel : Green
                             Consonant : Red
```

In []:

```
msg = "ABEIJLMOUWRSTWXY"
In [37]:
         from colorama import *
         index = 1
         for k in msg:
             if k=="A" or k=="E" or k=="I" or k=="O" or k=="U":
                 print(Fore.GREEN+str(index),"Vowel Letter Is :",k)
                  print(Fore.RED+str(index),"Consonant Letter Is :",k)
             index += 1
         1 Vowel Letter Is : A
         2 Consonant Letter Is : B
         3 Vowel Letter Is : E
         4 Vowel Letter Is : I
         5 Consonant Letter Is : J
         6 Consonant Letter Is : L
         7 Consonant Letter Is : M
         8 Vowel Letter Is: 0
         9 Vowel Letter Is : U
         10 Consonant Letter Is : W
         11 Consonant Letter Is: R
         12 Consonant Letter Is : S
         13 Consonant Letter Is : T
         14 Consonant Letter Is: W
         15 Consonant Letter Is : X
         16 Consonant Letter Is: Y
```

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