```
age=int(input("enter your age"))
         if age >=18:
             print("you are an adult")
         else:
             print("you are a kid")
         enter your age23
         you are an adult
 In [2]: # elif
 In [4]: marks=int(input("enter the marks"))
         if marks>=90:
             print("grade a")
         elif marks>=70:
             print("grade b")
         elif marks>=60:
             print("grade c")
         elif marks <60:</pre>
             print("grade d")
         enter the marks78
         grade b
In [5]: |#list
In [6]: numbers=[1,2,3,4,5]
         print(numbers[2])
         3
 In [8]: ab=[]
         print(ab)
         []
 In [9]: a=[1,1,1,1,1]
         b=[2,2,2,2,2]
         a[2]=3
In [10]: print(a)
         [1, 1, 3, 1, 1]
In [11]: print(a*2)
         [1, 1, 3, 1, 1, 1, 1, 3, 1, 1]
In [14]: | fruits=['apple', 'mango', 'banana']
         print('orange' not in fruits)
         True
In [15]: #functions of list
In [16]: fruits=['apple', 'banana', 'ornge', 'pime']
         print(fruits.append('ku'))
         None
In [17]: fruits.append('kiwi')
In [18]: fruits
Out[18]: ['apple', 'banana', 'ornge', 'pime', 'ku', 'kiwi']
In [19]: print(len(fruits))
         6
In [20]: | print(fruits.index('kiwi'))
         5
In [21]: fruits.insert(1, 'anu')
In [22]: print(fruits)
         ['apple', 'anu', 'banana', 'ornge', 'pime', 'ku', 'kiwi']
In [23]: fruits.append('anu')
In [24]: fruits
Out[24]: ['apple', 'anu', 'banana', 'ornge', 'pime', 'ku', 'kiwi', 'anu']
In [25]: fruits.index('anu')
Out[25]: 1
In [26]: | #range
In [29]: numbers=list(range(0,20,2))
In [30]: numbers
Out[30]: [0, 2, 4, 6, 8, 10, 12, 14, 16, 18]
In [35]: | numbers=list(range(10))
         num=list(reversed(numbers))
Out[35]: [9, 8, 7, 6, 5, 4, 3, 2, 1, 0]
In [32]: #code reuse
In [33]: | def function1():
             print('a')
             print('b')
             print('c')
         function1()
In [36]: | #for loop
In [37]: | fruits=['apple', 'banana', 'ornage', 'king']
         for i in fruits:
             print(i)
         apple
         banana
         ornage
         king
In [39]: for i in range(1,10):
             print("sonu")
         sonu
         sonu
         sonu
         sonu
         sonu
         sonu
         sonu
         sonu
         sonu
In [40]: for i in range(0,21,2):
             print(i)
         0
         2
         10
         12
         14
         16
         18
         20
In [41]: #boolan logics
In [48]: user="abhii"
         password='sonu'
         if user=='abhi' and password=="sonu":
             print('valid user')
         else:
             print("invalid user")
         invalid user
In [49]: #while
In [54]: counter=0
         while (counter<=10):</pre>
             print(counter)
             counter+=1
         10
In [55]: pip install coronavirus
         Collecting coronavirus
           Downloading coronavirus-1.1.0-py3-none-any.whl (4.6 kB)
         Collecting aiohttp>=3.0.0
           Downloading aiohttp-3.6.2-cp36-cp36m-macosx_10_13_x86_64.whl (646 kB)
                          | 646 kB 606 kB/s eta 0:00:01
         Requirement already satisfied: chardet<4.0,>=2.0 in ./Downloads/anaconda3/lib/python3.6/site-
         packages (from aiohttp>=3.0.0->coronavirus) (3.0.4)
         Requirement already satisfied: attrs>=17.3.0 in ./Downloads/anaconda3/lib/python3.6/site-pack
         ages (from aiohttp>=3.0.0->coronavirus) (19.3.0)
         Collecting multidict<5.0,>=4.5
           Downloading multidict-4.7.5-cp36-cp36m-macosx_10_13_x86_64.whl (48 kB)
                                               | 48 kB 426 kB/s eta 0:00:011
         Collecting async-timeout<4.0,>=3.0
           Downloading async_timeout-3.0.1-py3-none-any.whl (8.2 kB)
         Collecting idna-ssl>=1.0; python_version < "3.7"</pre>
           Downloading idna-ssl-1.1.0.tar.gz (3.4 kB)
         Collecting yarl<2.0,>=1.0
           Downloading yarl-1.4.2-cp36-cp36m-macosx_10_13_x86_64.whl (127 kB)
                                   | 127 kB 755 kB/s eta 0:00:01
         Collecting typing-extensions>=3.6.5; python_version < "3.7"
           Downloading typing_extensions-3.7.4.1-py3-none-any.whl (20 kB)
         Requirement already satisfied: idna>=2.0 in ./Downloads/anaconda3/lib/python3.6/site-packages
         (from idna-ssl>=1.0; python_version < "3.7"->aiohttp>=3.0.0->coronavirus) (2.8)
         Building wheels for collected packages: idna-ssl
           Building wheel for idna-ssl (setup.py) ... done
           Created wheel for idna-ssl: filename=idna_ssl-1.1.0-py3-none-any.whl size=3161 sha256=05e37
         718766c4e17013f790084096f6d3f38ee427494c4864092413f063b6fcb
           Stored in directory: /Users/abhilashavadhanula/Library/Caches/pip/wheels/6a/f5/9c/f8331a854
         f7a8739cf0e74c13854e4dd7b1af11b04fe1dde13
         Successfully built idna-ssl
         Installing collected packages: multidict, async-timeout, idna-ssl, yarl, typing-extensions, a
         iohttp, coronavirus
         Successfully installed aiohttp-3.6.2 async-timeout-3.0.1 coronavirus-1.1.0 idna-ssl-1.1.0 mul
         tidict-4.7.5 typing-extensions-3.7.4.1 yarl-1.4.2
         Note: you may need to restart the kernel to use updated packages.
 In [4]: coronavirus
                                                    Traceback (most recent call last)
         <ipython-input-4-8c81458c1f8b> in <module>
         ----> 1 coronavirus
         NameError: name 'coronavirus' is not defined
 In [5]: pip install pytrends
         Collecting pytrends
           Downloading pytrends-4.7.2.tar.gz (17 kB)
         Requirement already satisfied: requests in ./Downloads/anaconda3/lib/python3.6/site-packages
         (from pytrends) (2.22.0)
         Requirement already satisfied: pandas in ./Downloads/anaconda3/lib/python3.6/site-packages (f
         rom pytrends) (1.0.1)
         Requirement already satisfied: lxml in ./Downloads/anaconda3/lib/python3.6/site-packages (fro
         m pytrends) (4.5.0)
         Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in ./Downloads/anacond
         a3/lib/python3.6/site-packages (from requests->pytrends) (1.25.8)
         Requirement already satisfied: chardet<3.1.0,>=3.0.2 in ./Downloads/anaconda3/lib/python3.6/s
         ite-packages (from requests->pytrends) (3.0.4)
         Requirement already satisfied: certifi>=2017.4.17 in ./Downloads/anaconda3/lib/python3.6/site
         -packages (from requests->pytrends) (2019.11.28)
         Requirement already satisfied: idna<2.9,>=2.5 in ./Downloads/anaconda3/lib/python3.6/site-pac
         kages (from requests->pytrends) (2.8)
         Requirement already satisfied: numpy>=1.13.3 in ./Downloads/anaconda3/lib/python3.6/site-pack
         ages (from pandas->pytrends) (1.18.1)
         Requirement already satisfied: python-dateutil>=2.6.1 in ./Downloads/anaconda3/lib/python3.6/
         site-packages (from pandas->pytrends) (2.8.1)
         Requirement already satisfied: pytz>=2017.2 in ./Downloads/anaconda3/lib/python3.6/site-packa
         ges (from pandas->pytrends) (2019.3)
         Requirement already satisfied: six>=1.5 in ./Downloads/anaconda3/lib/python3.6/site-packages
         (from python-dateutil>=2.6.1->pandas->pytrends) (1.14.0)
         Building wheels for collected packages: pytrends
           Building wheel for pytrends (setup.py) ... done
           Created wheel for pytrends: filename=pytrends-4.7.2-py3-none-any.whl size=14261 sha256=ac1d
         4cb0560ab1513e3f593c1bdc760197e48a41b2ce39250146c6e41f256c4c
           Stored in directory: /Users/abhilashavadhanula/Library/Caches/pip/wheels/ba/e9/63/a7be983fd
         d9d25e31de75dd388b6f5ea8b5191c20396a6dc52
         Successfully built pytrends
         Installing collected packages: pytrends
         Successfully installed pytrends-4.7.2
         Note: you may need to restart the kernel to use updated packages.
 In [6]: from pytrends.request import TrendReq
 In [9]: pytrends = TrendReg(hl='en-IND', tz=360)
         pytrends.build_payload(['Coronavirus'], cat=0, timeframe='2020-02-01 2020-03-10', gprop='',
         geo='US-NY')
In [10]: | df = pytrends.interest_over_time()
         print(df.head())
                     Coronavirus isPartial
         date
         2020-02-01
                                       False
                              17
         2020-02-02
                                       False
                              18
         2020-02-03
                              17
                                       False
         2020-02-04
                              15
                                       False
         2020-02-05
                              11
                                       False
In [11]: import matplotlib.pyplot as plt
         import seaborn as sns
         import pandas as pd
         sns.set()
         df['timestamp'] = pd.to_datetime(df.index)
         sns.lineplot(df['timestamp'], df['Coronavirus'])
         plt.title("Normalized Searches for Coronavirus in NY")
         plt.ylabel("Number of Searches")
         plt.xlabel("Date")
Out[11]: Text(0.5, 0, 'Date')
                     Normalized Searches for Coronavirus in NY
            100
             80
          of Searches
            60
          Number
            40
             20
             2020-02-012020-02-082020-02-152020-02-22 2020-03-012020-03-08
In [12]: pip install slackclient
         Collecting slackclient
           Downloading slackclient-2.5.0-py2.py3-none-any.whl (54 kB)
                                54 kB 1.2 MB/s eta 0:00:011
         Requirement already satisfied: aiohttp>3.5.2 in ./Downloads/anaconda3/lib/python3.6/site-pack
         ages (from slackclient) (3.6.2)
         Requirement already satisfied: attrs>=17.3.0 in ./Downloads/anaconda3/lib/python3.6/site-pack
         ages (from aiohttp>3.5.2->slackclient) (19.3.0)
         Requirement already satisfied: multidict<5.0,>=4.5 in ./Downloads/anaconda3/lib/python3.6/sit
         e-packages (from aiohttp>3.5.2->slackclient) (4.7.5)
         Requirement already satisfied: typing-extensions>=3.6.5; python_version < "3.7" in ./Download
         s/anaconda3/lib/python3.6/site-packages (from aiohttp>3.5.2->slackclient) (3.7.4.1)
```

Requirement already satisfied: chardet<4.0,>=2.0 in ./Downloads/anaconda3/lib/python3.6/site-

Requirement already satisfied: idna-ssl>=1.0; python version < "3.7" in ./Downloads/anaconda

Requirement already satisfied: yarl<2.0,>=1.0 in ./Downloads/anaconda3/lib/python3.6/site-pac

Requirement already satisfied: async-timeout<4.0,>=3.0 in ./Downloads/anaconda3/lib/python3.

Requirement already satisfied: idna>=2.0 in ./Downloads/anaconda3/lib/python3.6/site-packages

3/lib/python3.6/site-packages (from aiohttp>3.5.2->slackclient) (1.1.0)

(from idna-ssl>=1.0; python\_version < "3.7"->aiohttp>3.5.2->slackclient) (2.8)

packages (from aiohttp>3.5.2->slackclient) (3.0.4)

kages (from aiohttp>3.5.2->slackclient) (1.4.2)

Installing collected packages: slackclient Successfully installed slackclient-2.5.0

6/site-packages (from aiohttp>3.5.2->slackclient) (3.0.1)

In [1]: #if statement