**1**

In [1]:

name **=** input("Enter Your Name: ")

age **=** int(input("Enter Your Age: "))

print("Your name is: "**+**name**+**"\n"**+**"Your age is:",age)

Enter Your Name: Shaun

Enter Your Age: 20

Your name is: Shaun

Your age is: 20

**2**

In [2]:

x **=** "Datascience is used to extract meaningful insights."

s **=** ""

**for** i **in** x:

**if** i **==** " ":

print(s**+**"\n")

s**=**""

s **=** s**+**i

Datascience

is

used

to

extract

meaningful

In [3]:

x **=** "Datascience is used to extract meaningful insights."

l **=** x**.**split()

l

Out[3]:

['Datascience', 'is', 'used', 'to', 'extract', 'meaningful', 'insights.']

**3**

In [4]:

**def** mul(a,b):

print(a**\***b)

mul(2,3)

6

**4**

In [5]:

d **=** {

'Nebraska' : 'Lincoln',

'Nevada':'Carson City',

'Tamil Nadu':'Chennai',

'kerala':'Carson City',

'Andra Pradesh':'Amaravati'

}

print(d**.**keys())

print(d**.**values())

dict\_keys(['Nebraska', 'Nevada', 'Tamil Nadu', 'kerala', 'Andra Pradesh'])

dict\_values(['Lincoln', 'Carson City', 'Chennai', 'Carson City', 'Amaravati'])

**5**

In [6]:

list **=** []

**for** i **in** range(1000):

list**.**append(i)

list

Out[6]:

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**6**

In [7]:

**import** numpy **as** np

np**.**eye(4)

Out[7]:

array([[1., 0., 0., 0.],

[0., 1., 0., 0.],

[0., 0., 1., 0.],

[0., 0., 0., 1.]])

**7**

In [8]:

matrix **=** []

**for** i **in** range(3):

row **=** []

**for** j **in** range(3):

row**.**append((i**\***3)**+**j**+**1)

matrix**.**append(row)

matrix

Out[8]:

[[1, 2, 3], [4, 5, 6], [7, 8, 9]]

In [9]:

matrix **=** np**.**arange(1,10)**.**reshape(3,3)

matrix

Out[9]:

array([[1, 2, 3],

[4, 5, 6],

[7, 8, 9]])

**8**

In [10]:

a1 **=** np**.**arange(10)**.**reshape(2,5)

a2 **=** np**.**arange(10)**.**reshape(2,5)

a1

Out[10]:

array([[0, 1, 2, 3, 4],

[5, 6, 7, 8, 9]])

In [11]:

a2

Out[11]:

array([[0, 1, 2, 3, 4],

[5, 6, 7, 8, 9]])

In [12]:

sum **=** 0

i**=**0

j**=**0

**while** i**<**len(a1):

**while** j**<**len(a1[i]):

sum **+=** a1[i][j]**+**a2[i][j]

j**+=**1

i**+=**1

sum

Out[12]:

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**9**

In [14]:

**from** datetime **import** datetime, timedelta

start\_date **=** datetime(2023, 2, 1)

end\_date **=** datetime(2023, 3, 1)

current\_date **=** start\_date

**while** current\_date **<=** end\_date:

print(current\_date**.**strftime('%Y-%m-%d'))

current\_date **+=** timedelta(days**=**1)

2023-02-01

2023-02-02

2023-02-03

2023-02-04

2023-02-05

2023-02-06

2023-02-07

2023-02-08

2023-02-09

2023-02-10

2023-02-11

2023-02-12

2023-02-13

2023-02-14

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2023-02-27

2023-02-28

2023-03-01

**10**

In [13]:

dict **=** {

'Brand':['Maruthi','Renault','Hyndai'],

'Sales':[250,200,240]

}

**import** pandas **as** pd

d **=** pd**.**DataFrame(dict)

d

Out[13]:

|  | **Brand** | **Sales** |
| --- | --- | --- |
| **0** | Maruthi | 250 |
| **1** | Renault | 200 |
| **2** | Hyndai | 240 |