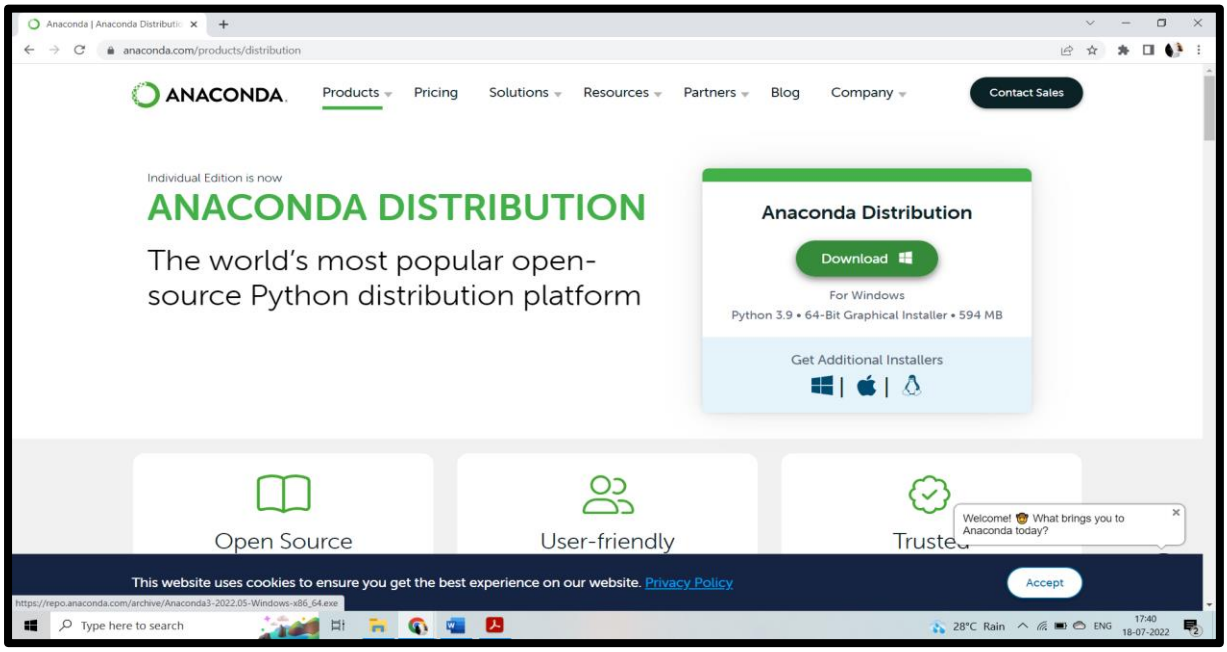
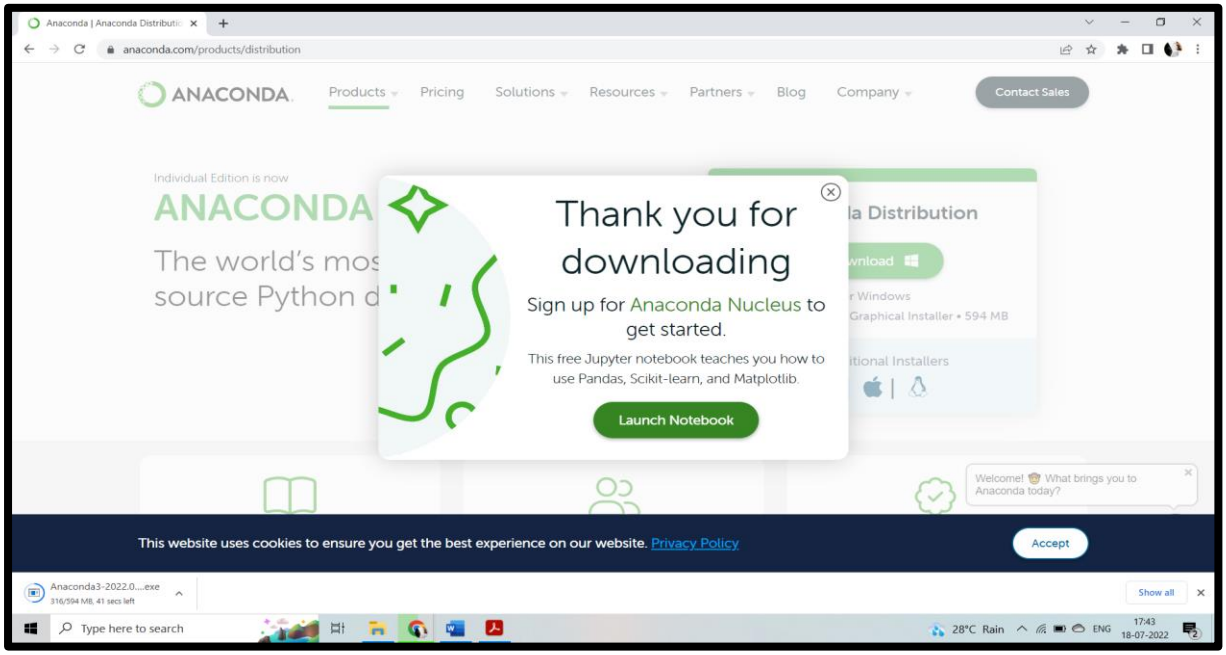
Practical: - 1

Aim: - Install and learn python idle in interactive and batch mode.

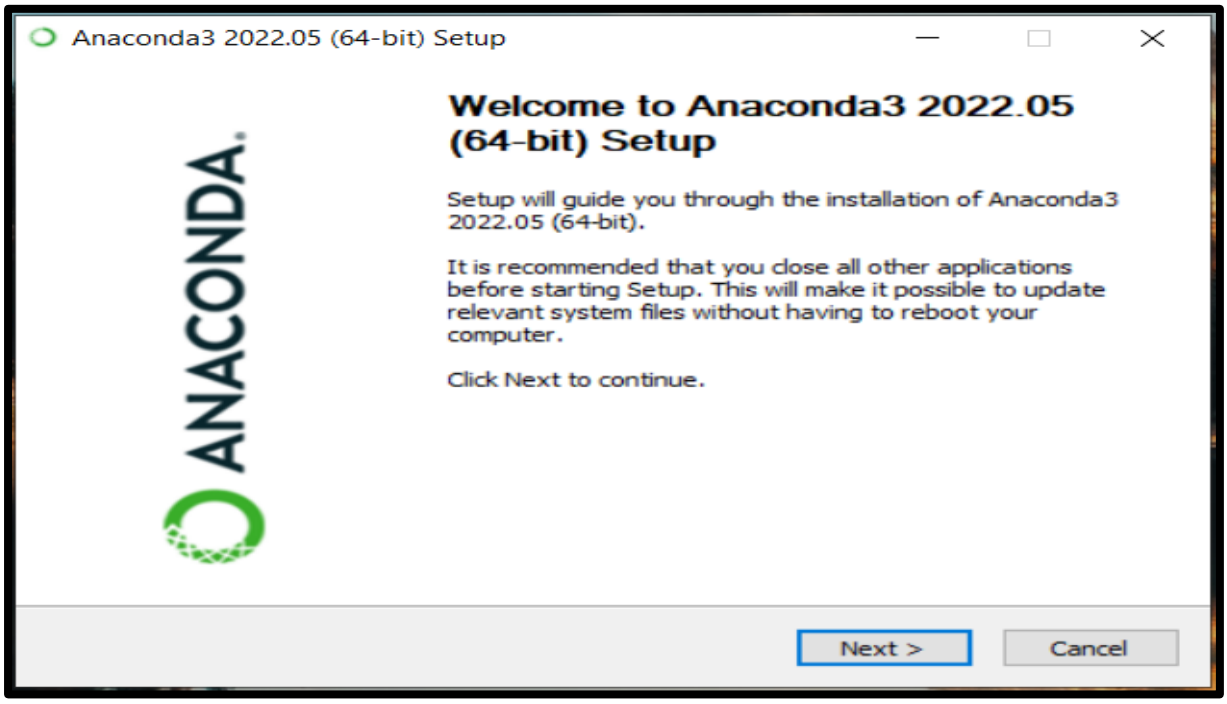
Step 1: - Click here to Download ANACONDA DISTRIBUTION on Windows.



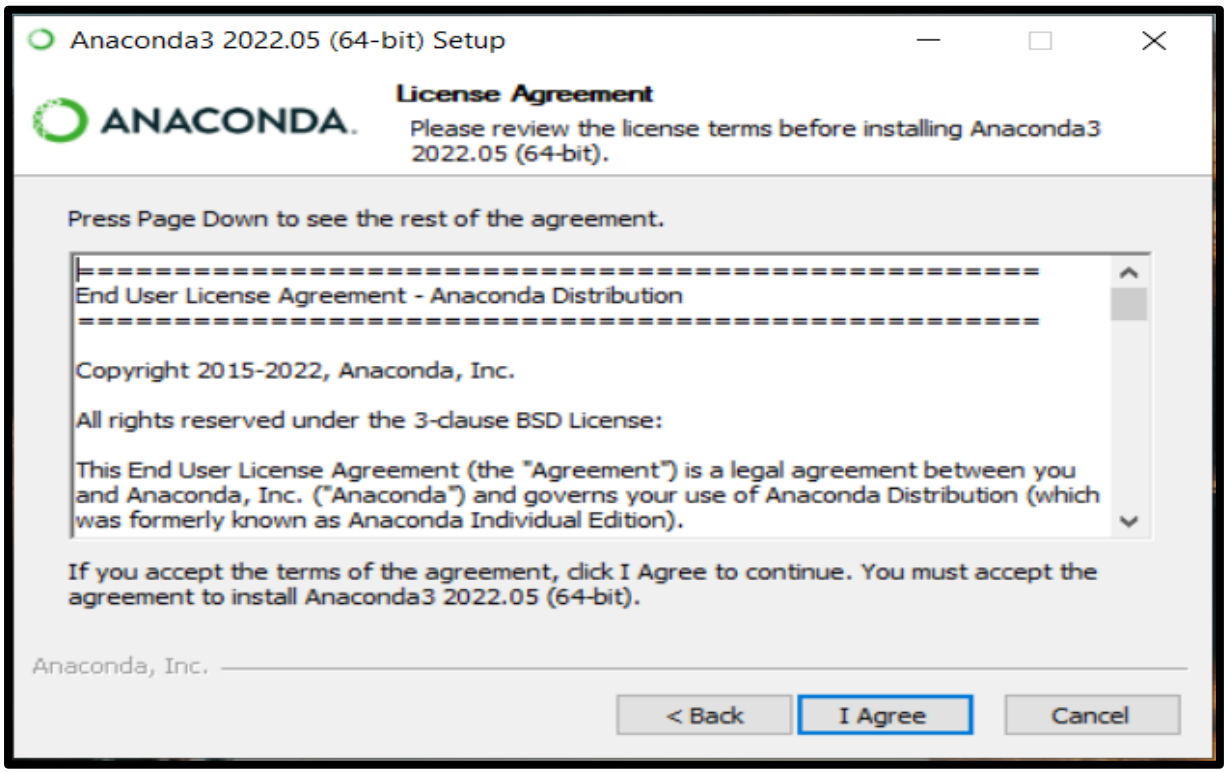
Step 2: - Click on download button and create a folder for anaconda.



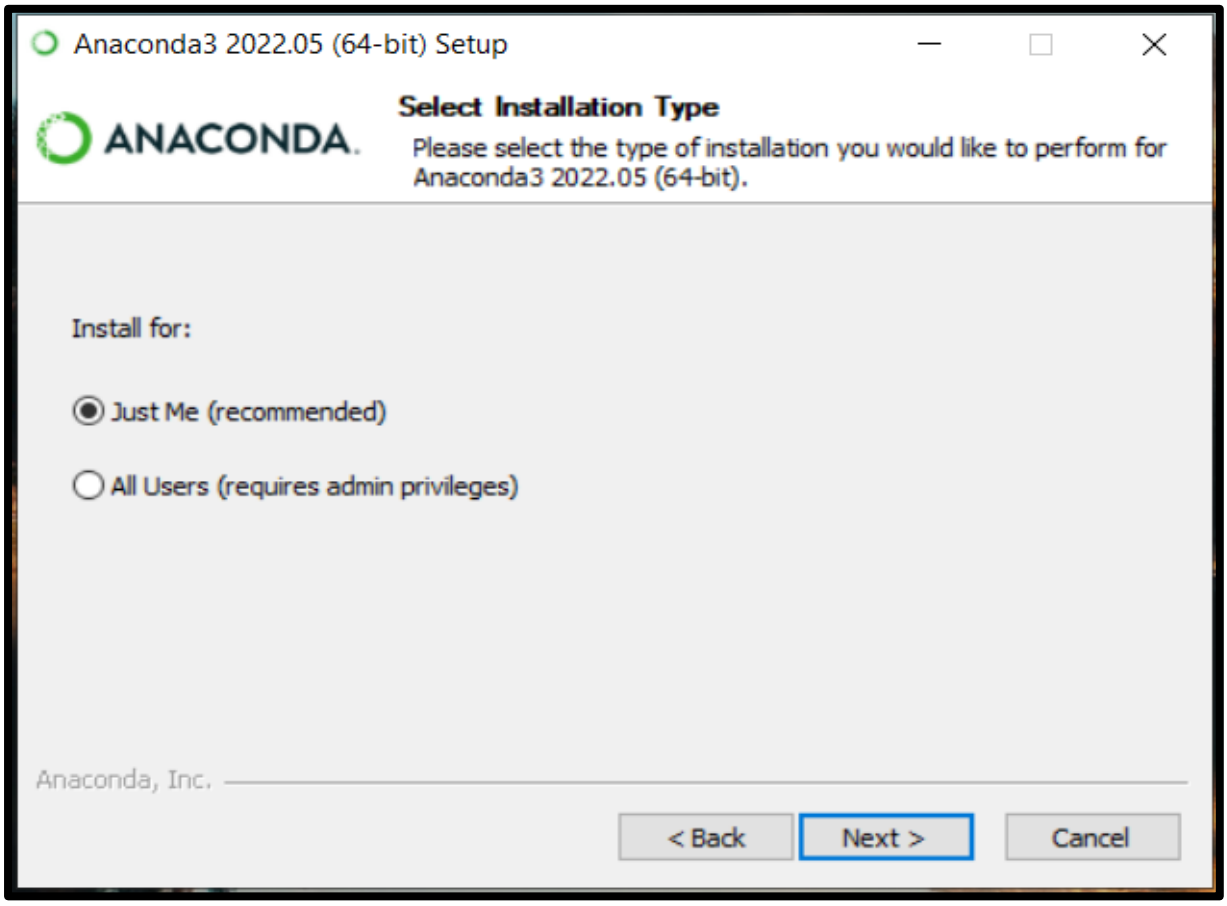
Step 3: - Click on next.



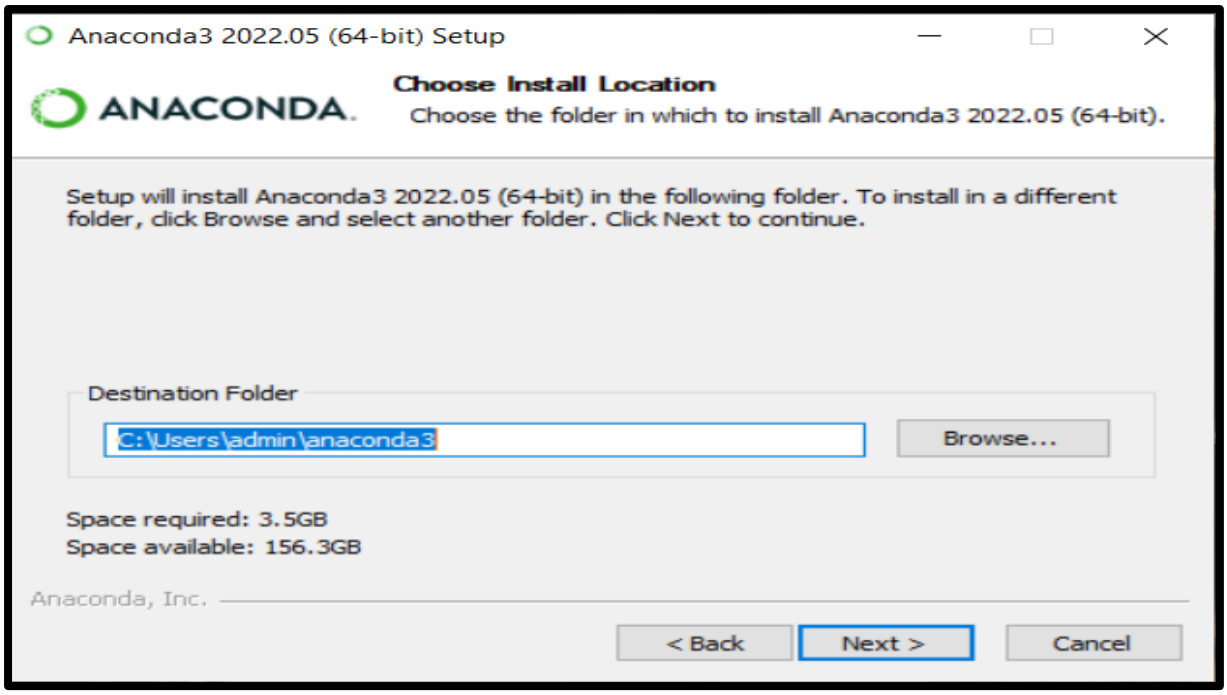
Step 4: - Click on next and agree the license agreement.



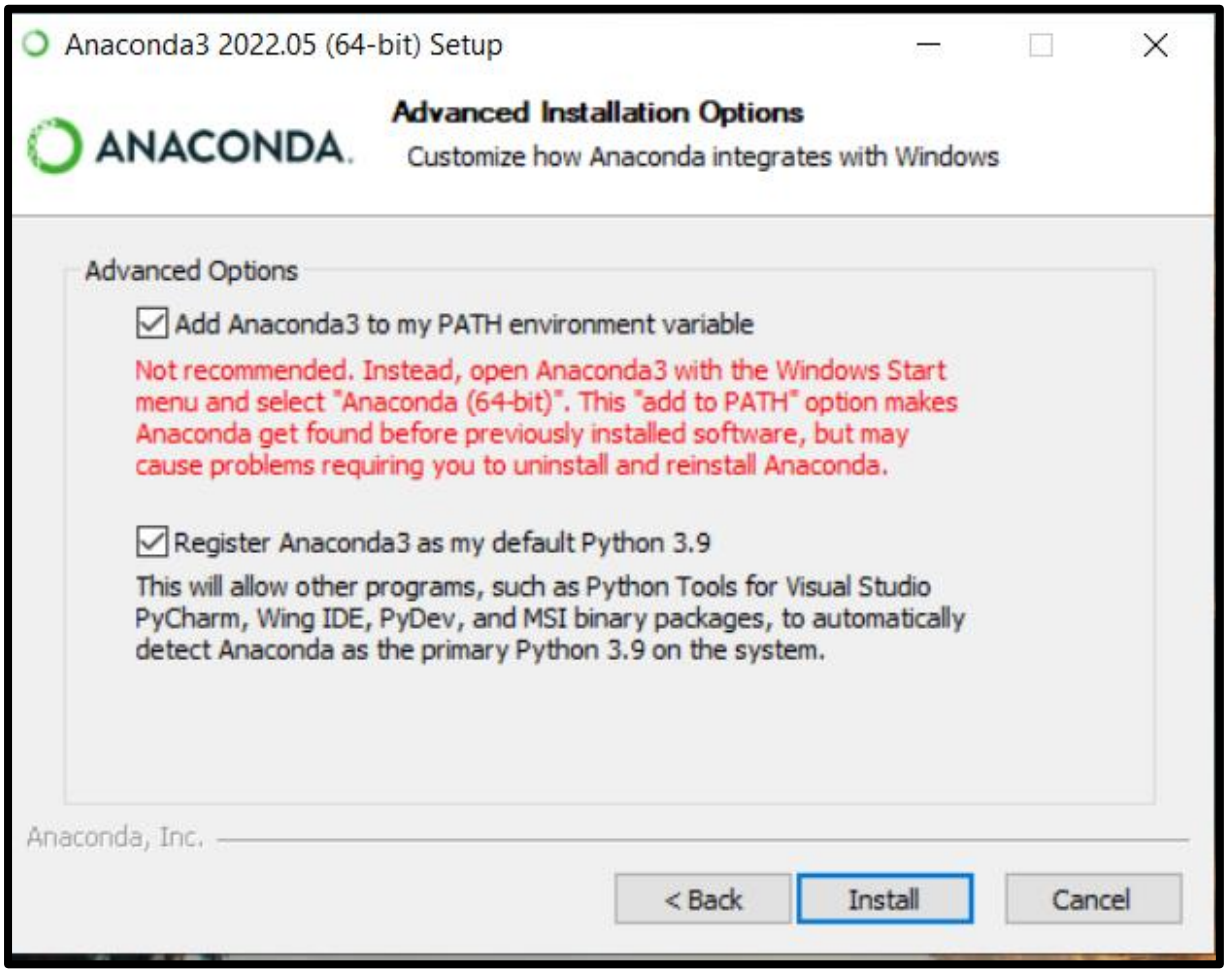
Step 5: - By default It shows JUST ME (recommended) the click on next



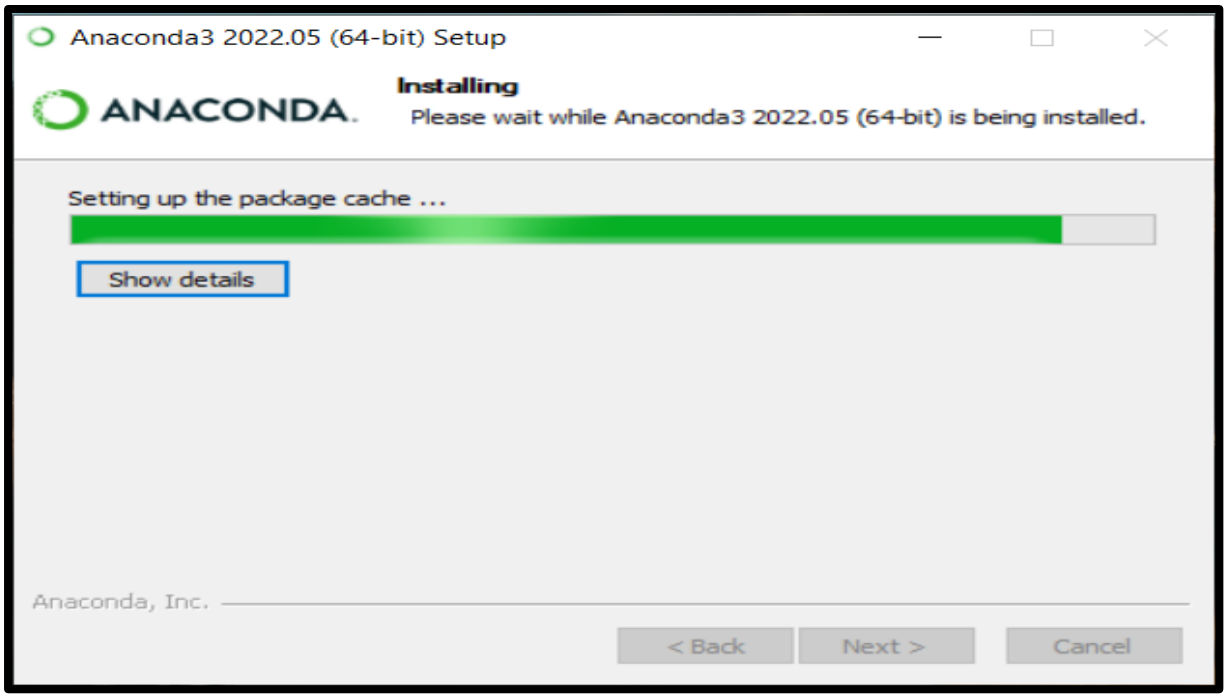
Step 6: - Click on next



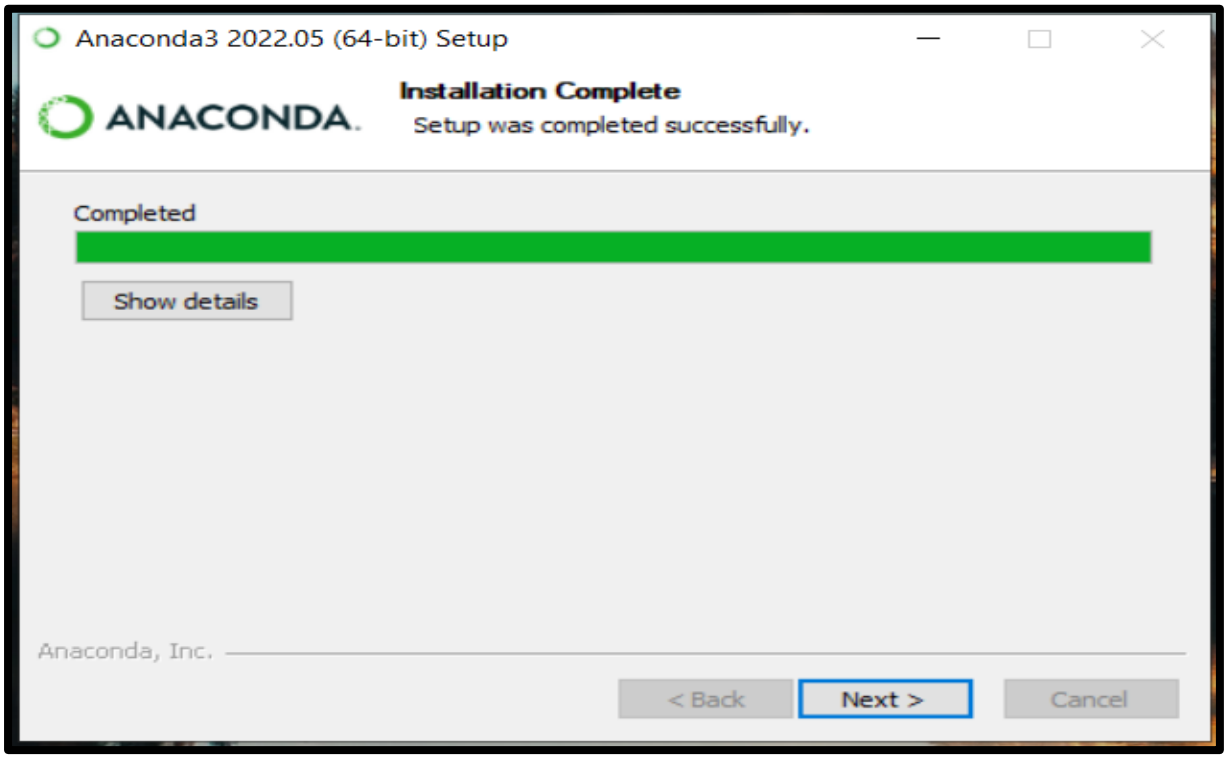
Step 7: - Enable two options here and then click on install

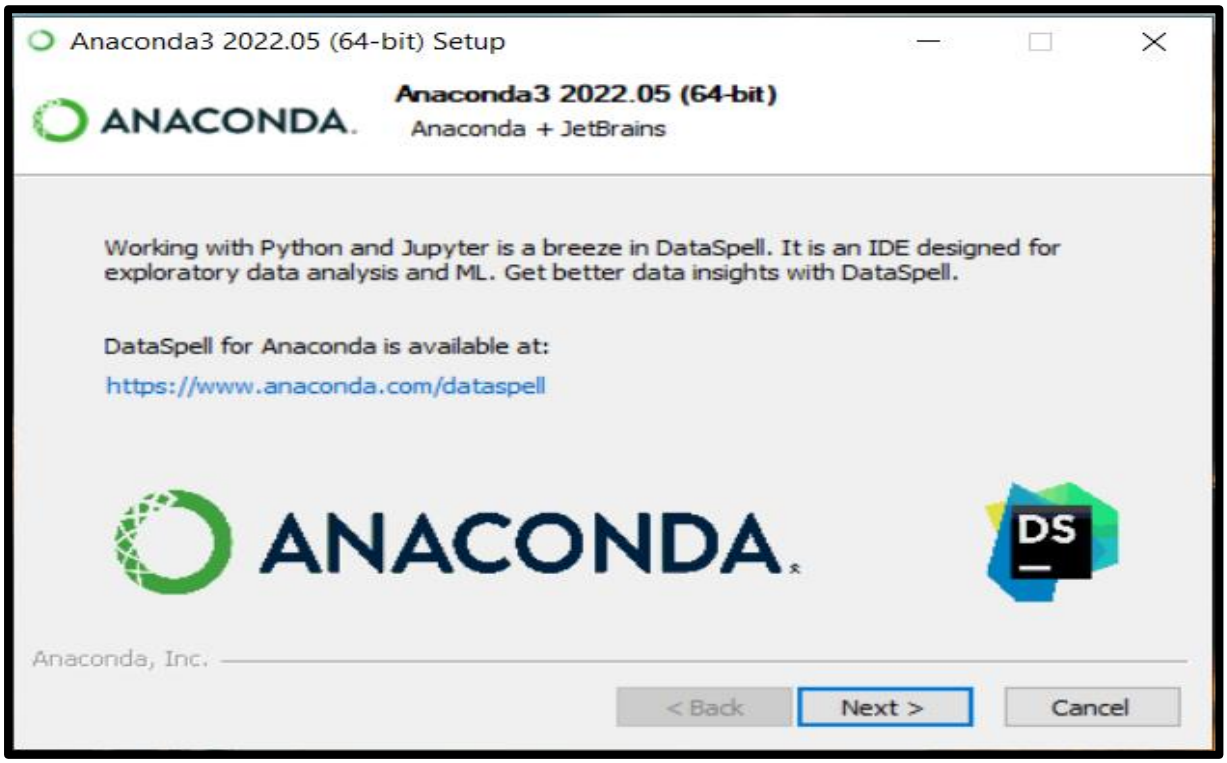


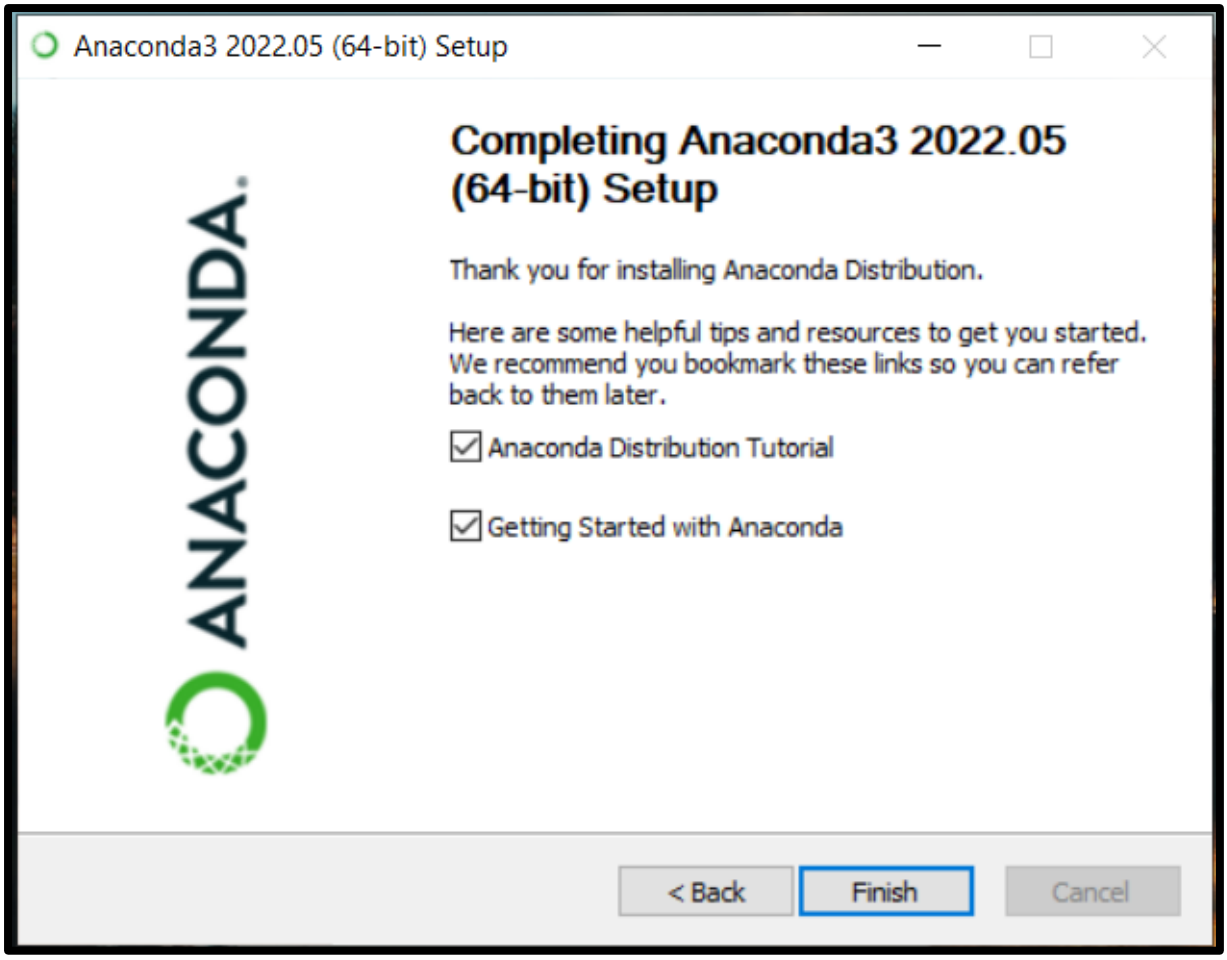
Step 8: - Installing



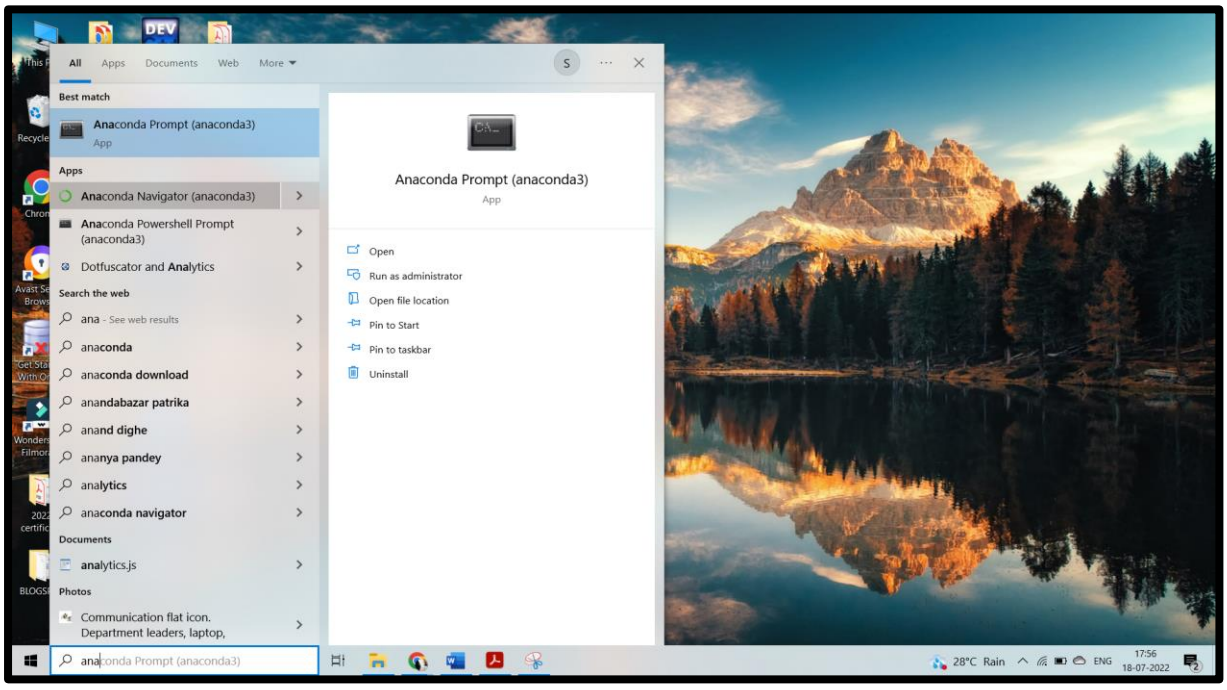
Step 9: - Click on next



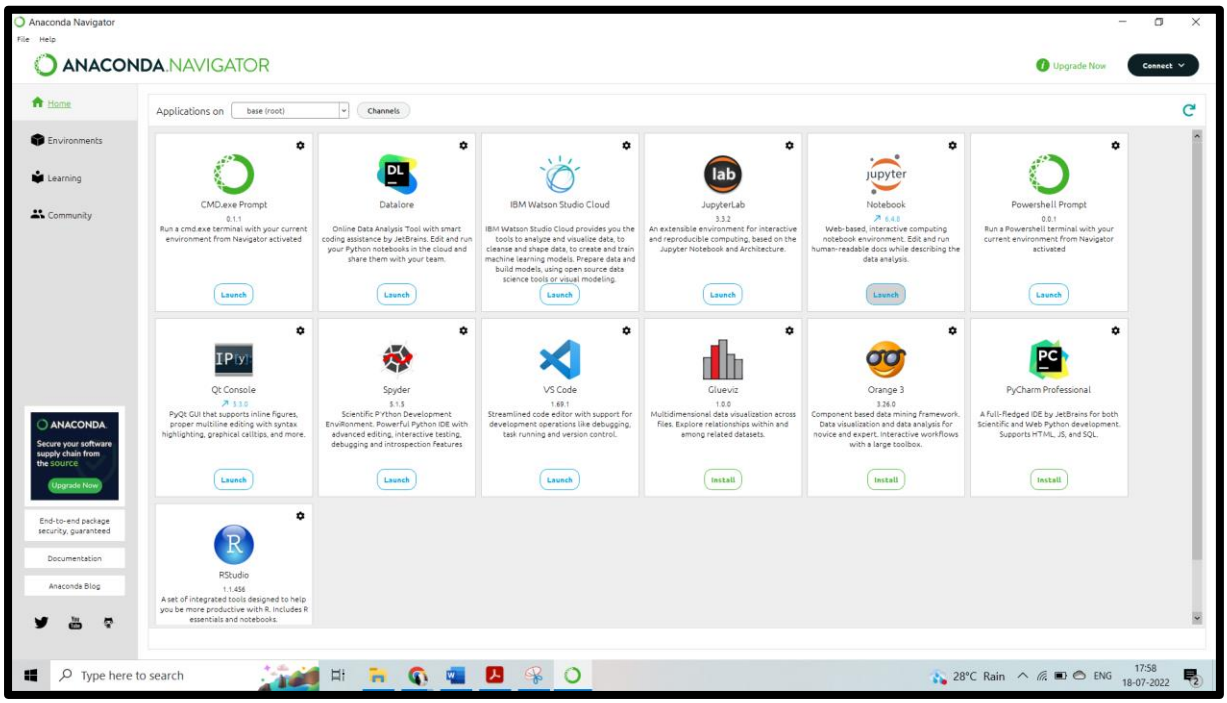




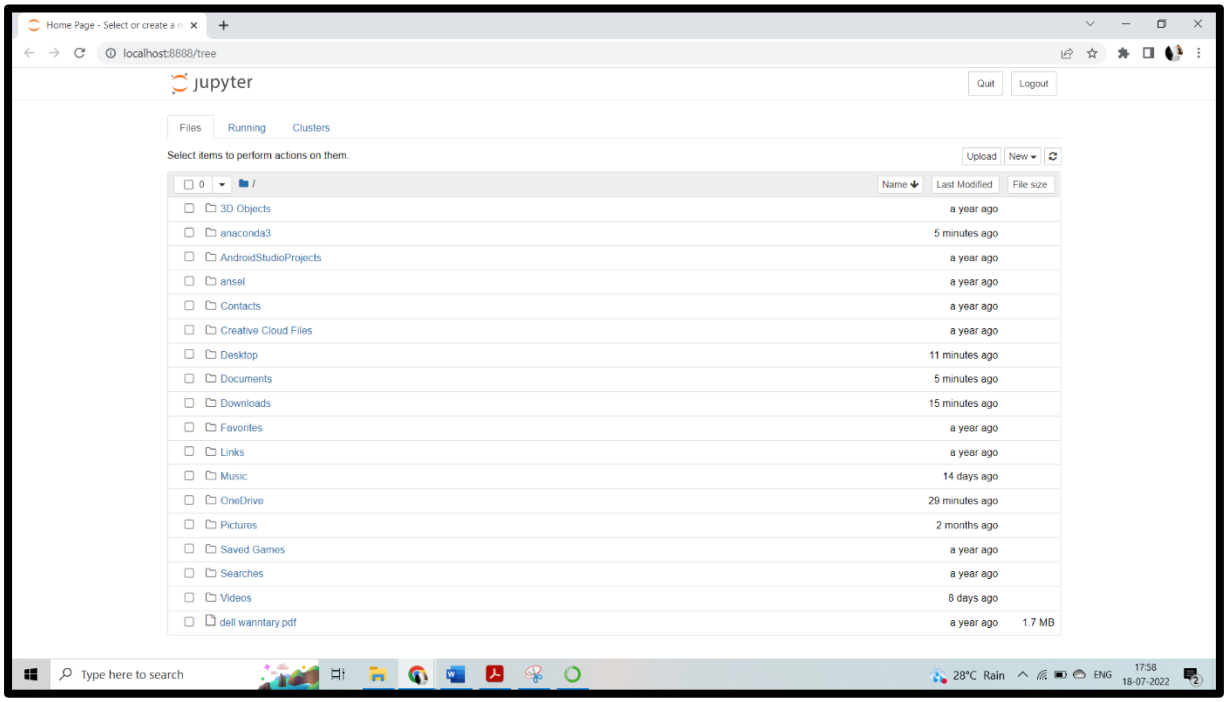
Step 10: - Click on finish and the search anaconda navigator and open

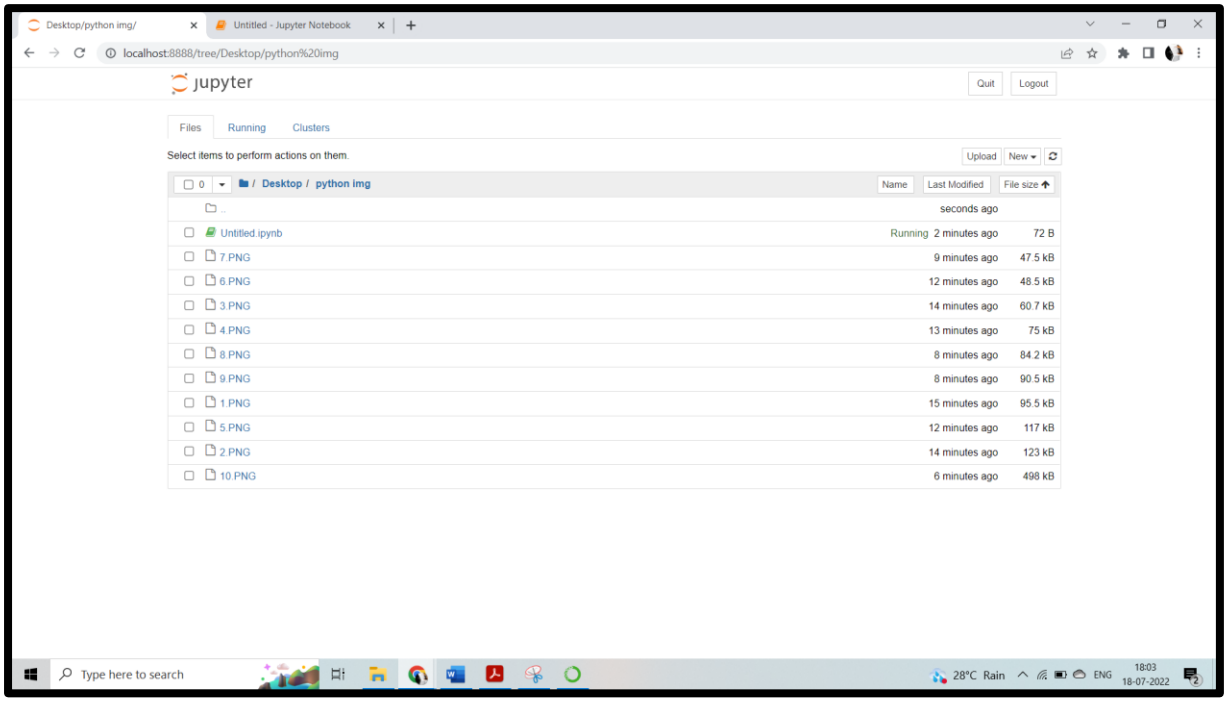


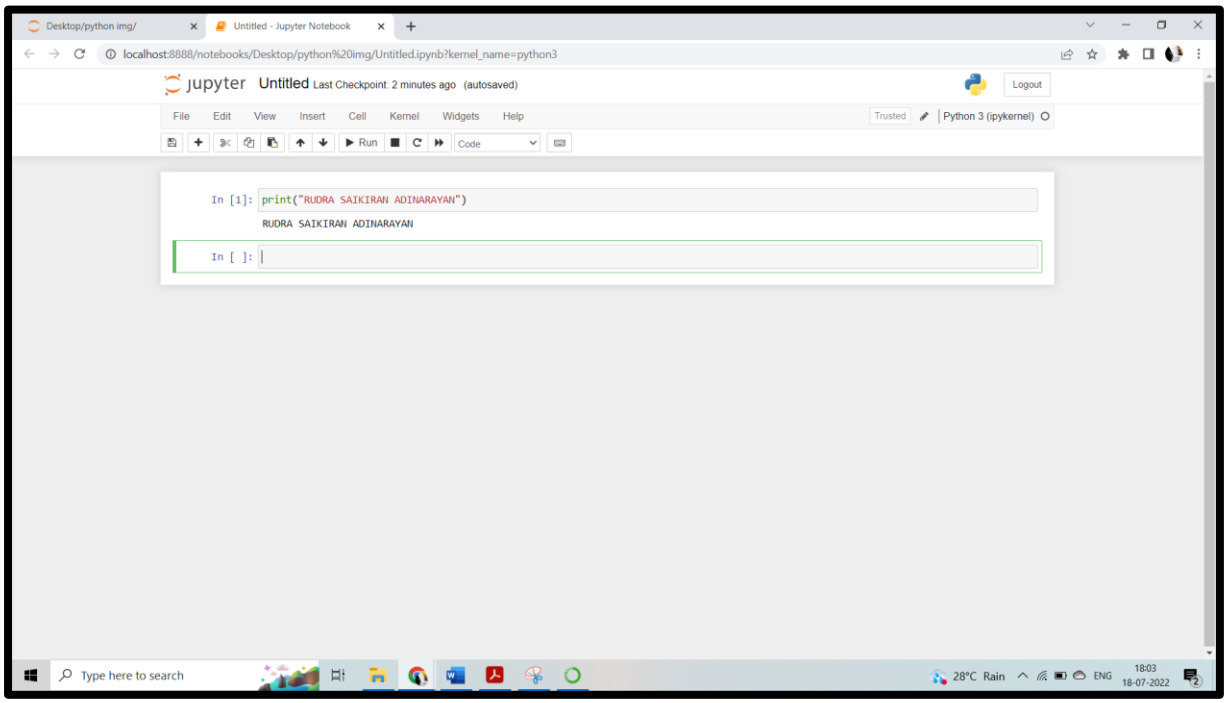
Step 11: - Launch Jupiter Notebook



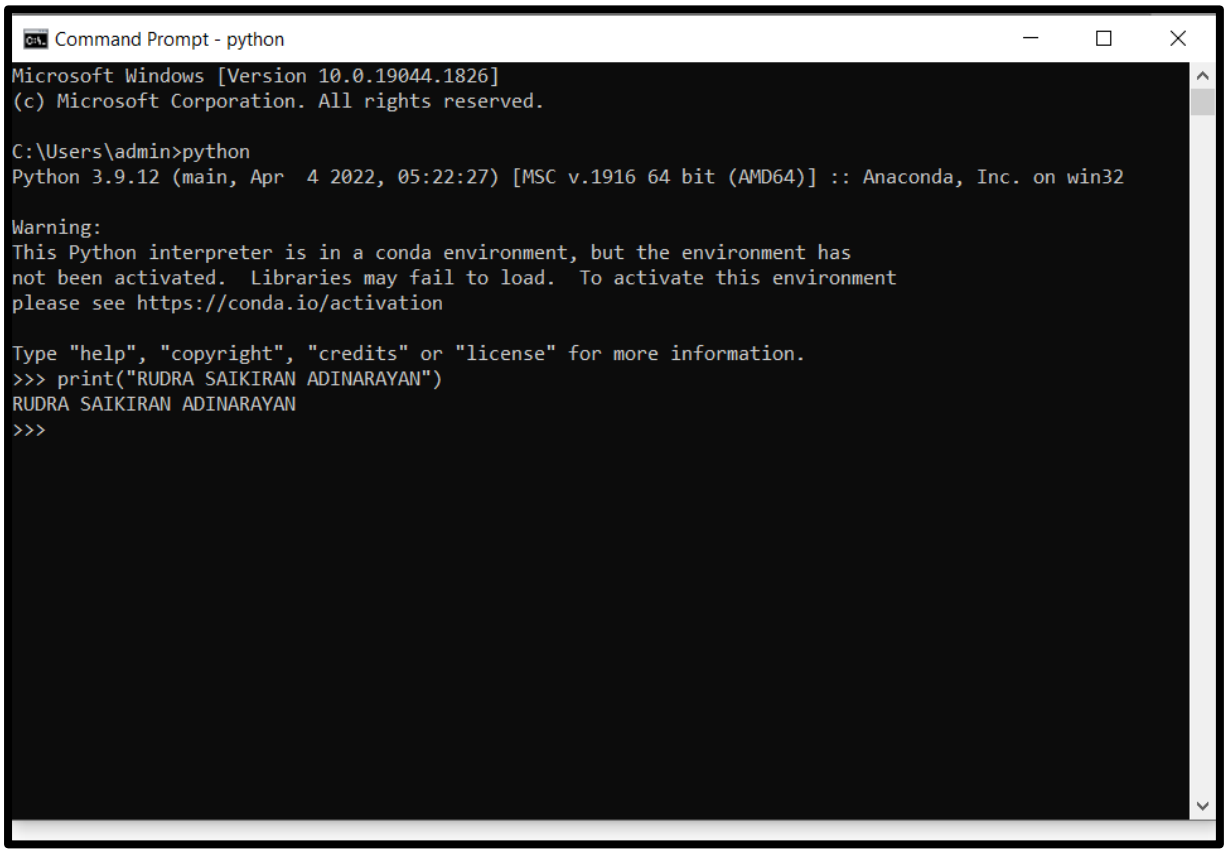
Step 12: - Create a folder on desktop




Desktop/python img/
Untitled - Jupyter Notebook
localhost:8888/tree/Desktop/python%20img
jupyter
Quit
Logout
Files
Running
Clusters
Select items to perform actions on them.
Upload
New
Desktop / python img
Name
Last Modified
File size
seconds ago
Untitled.ipynb
Running 2 minutes ago 72 B
7.PNG 9 minutes ago 47.5 kB
6.PNG 12 minutes ago 48.5 kB
3.PNG 14 minutes ago 60.7 kB
4.PNG 13 minutes ago 75 kB
8.PNG 8 minutes ago 84.2 kB
9.PNG 8 minutes ago 90.5 kB
1.PNG 15 minutes ago 95.5 kB
5.PNG 12 minutes ago 117 kB
2.PNG 14 minutes ago 123 kB
10.PNG 6 minutes ago 498 kB
Type here to search
28°C Rain
ENG
18:03
18-07-2022


Desktop/python img/
Untitled - Jupyter Notebook
localhost:8888/notebooks/Desktop/python%20img/Untitled.ipynb?kernel_name=python3
jupyter Untitled Last Checkpoint: 2 minutes ago (autosaved)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
In [1]: print("RUDRA SAIKIRAN ADINARAYAN")
RUDRA SAIKIRAN ADINARAYAN
In [ ]:
Type here to search
28°C Rain
ENG
18:03
18-07-2022

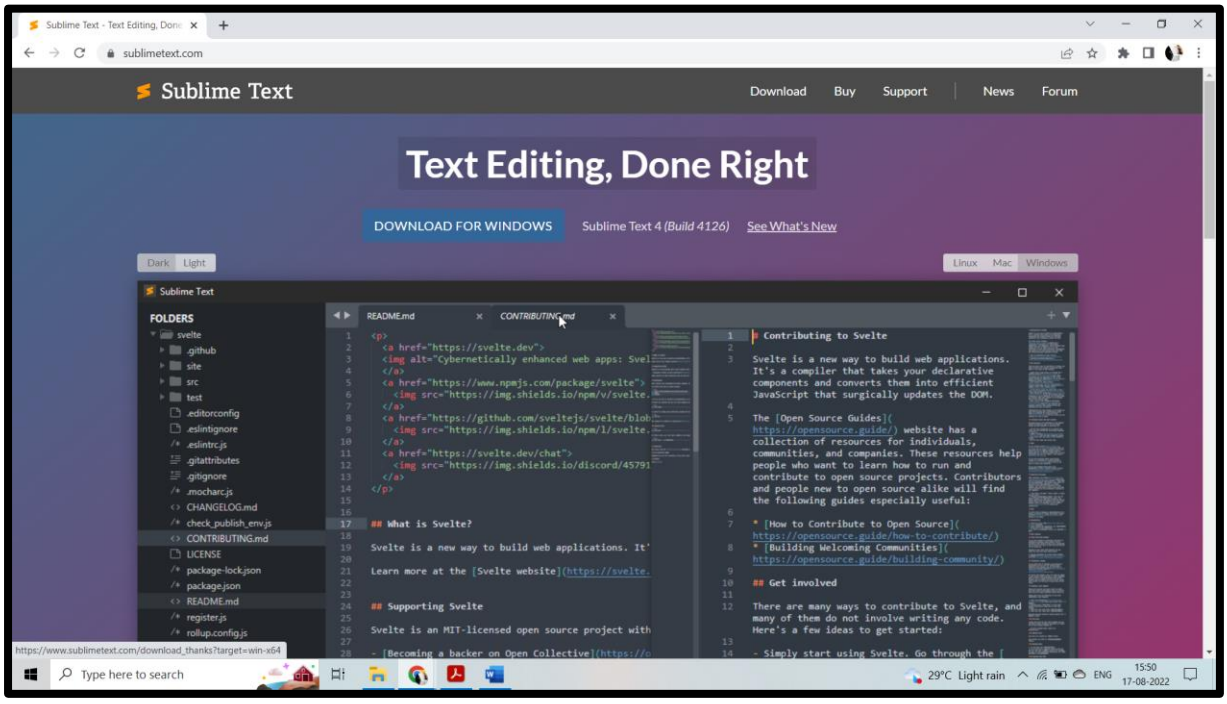
CMD

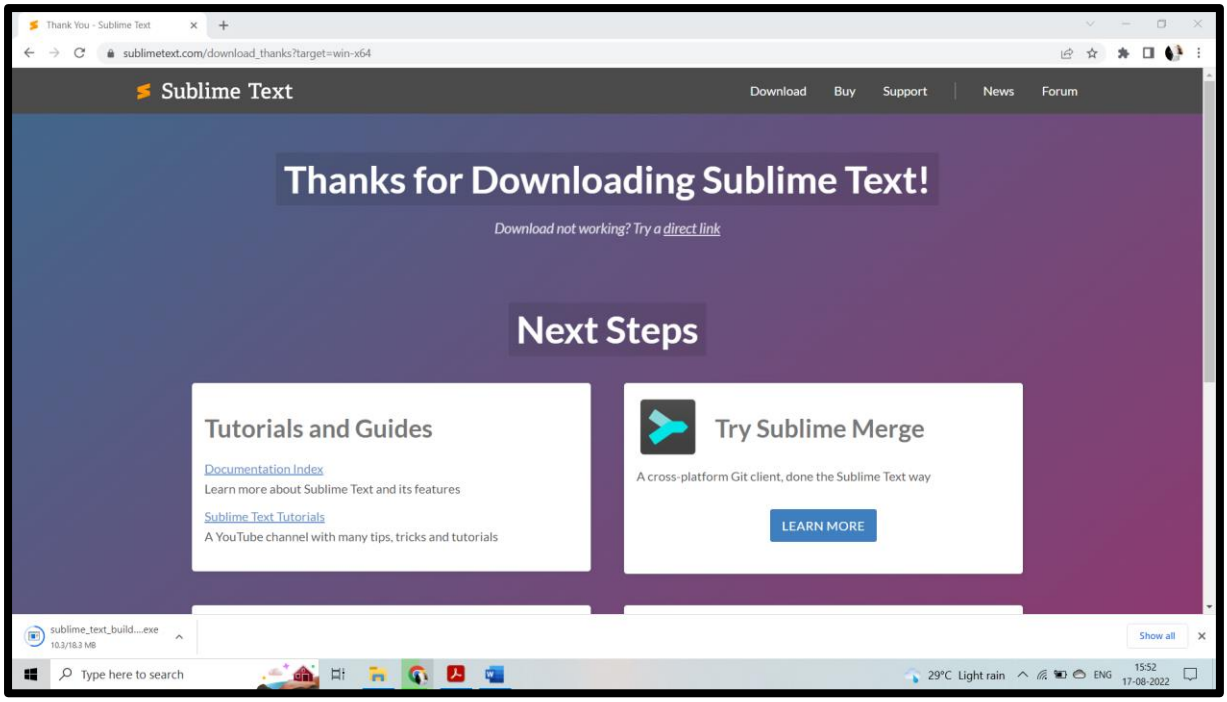


TO EXIT THE PYTHON IN CMD

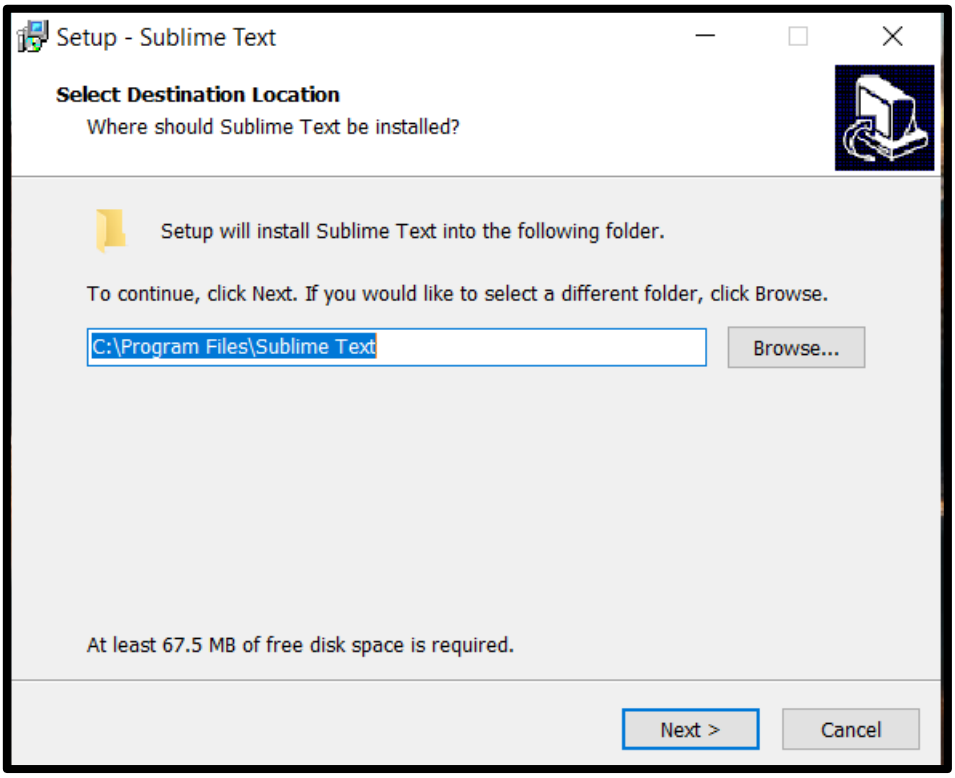
Install Sublime Text

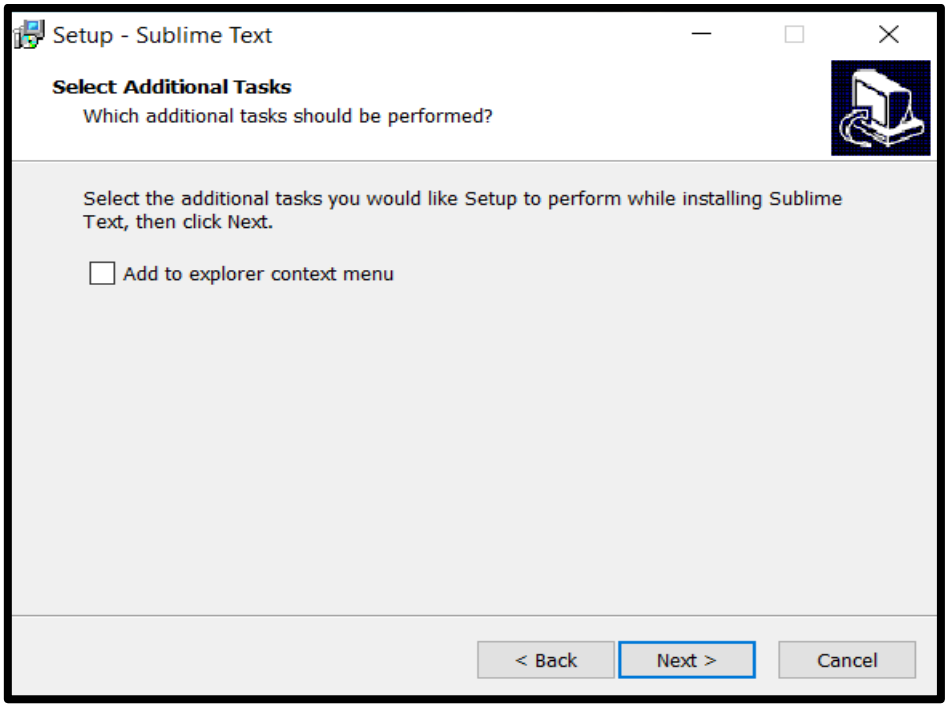
Step 1: - Click here to Download SUBLIME TEXT on Windows.



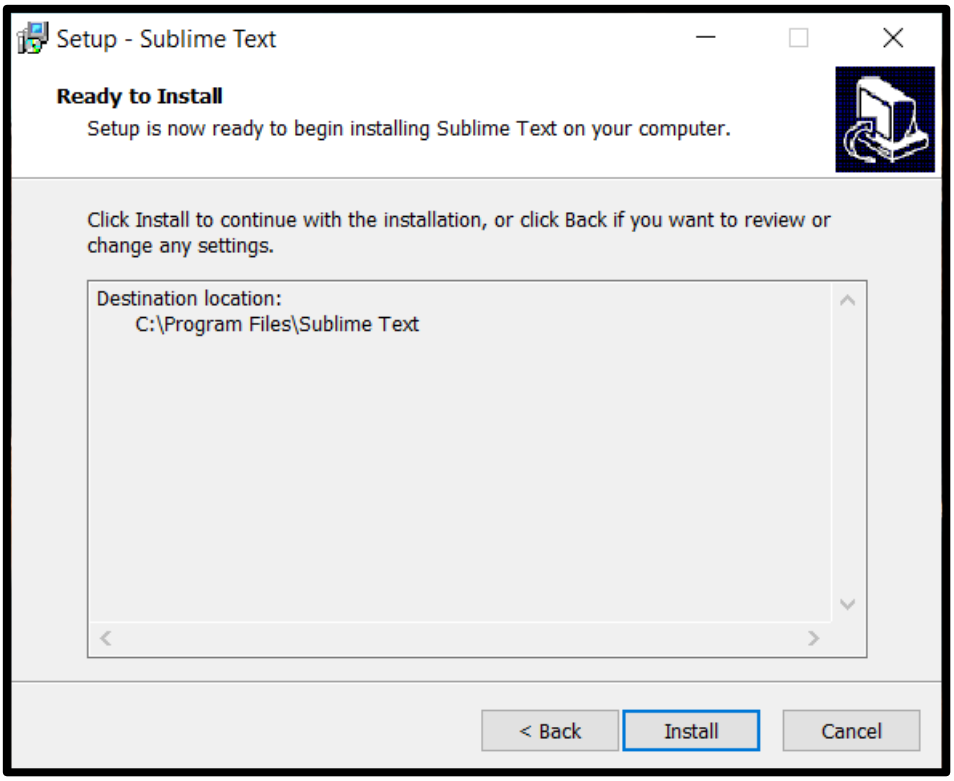


Step 2: - Click on next

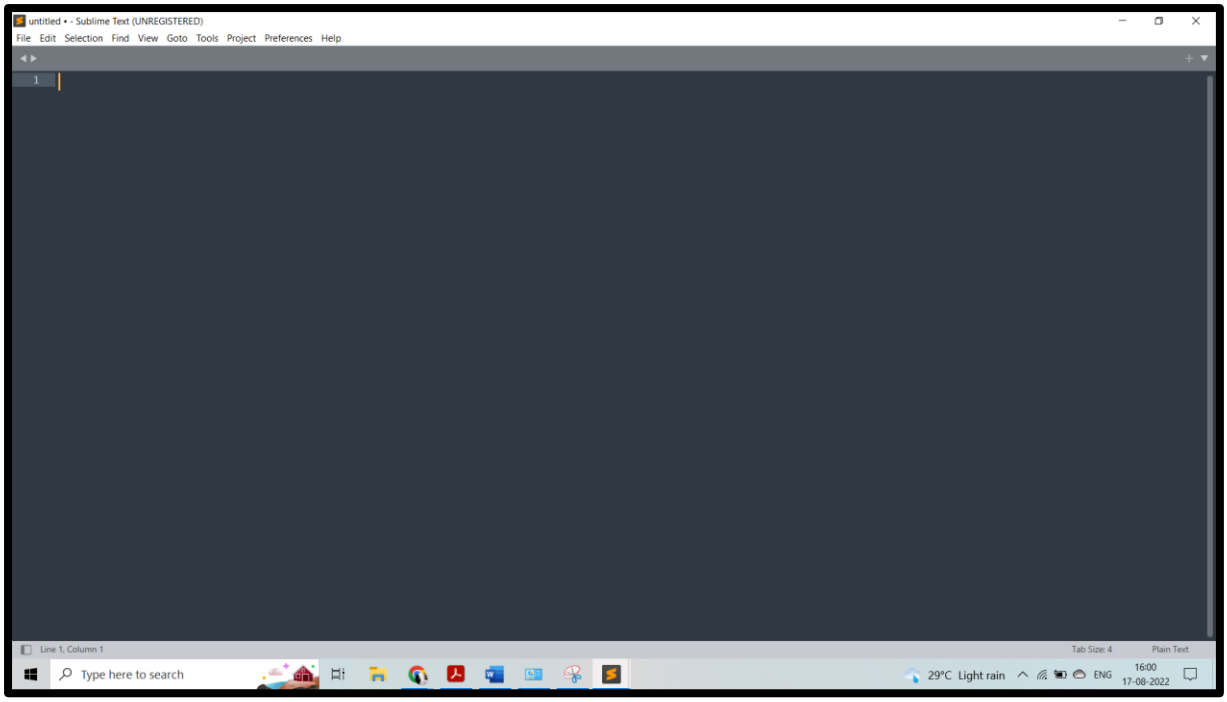




Step 3: - Click on Install



Step 4: - Click on Finish


untitled • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
1
Line 1, Column 1
Tab Size: 4
Plain Text
Type here to search
29°C Light rain
ENG
16:00
17-08-2022

NAME:- RUDRA SAIKIRAN **ENROLLMENT:-20270106138**

PRACTICAL:-2

AIM:-Write a Python program to print Hello world!

In [3]:
```
print("Hello World")
```

```
Hello World
```

NAME:- RUDRA SAIKIRAN ENROLLMENT:-20270106138

PRACTICAL:-3

AIM:-Write a Python program to calculate the area of a square, triangle

static program of area of square

In [3]:
```
side=9
area=side*side
print("area of square:-",area)
```

```
area of square:- 81
```

Dynamic program of area of square

In [4]:
```
side=int(input("enter the side:-"))
area=side*side
print("area of square:-",area)
```

```
enter the side:-9
area of square:- 81
```

static program of area of triangle equation 1

In [7]:
```
b=9
h=7
area=b*h/2
print("area of triangle:-",area)
```

```
area of triangle:- 31.5
```

Dynamic program of area of triangle equation 1

In [8]:
```
b=int(input("enter the value of b:-"))
h=int(input("enter the value of h:-"))
area=b*h/2
print("area of triangle:-",area)
```

```
enter the value of b:-9
enter the value of h:-7
area of triangle:- 31.5
```

Static program of area of triangle equation 2

In [20]:
```
a=8
b=7
c=6
s=(a+b+c)/2
print("the parameter S is:",s)
area=(s*(s-a)*(s-b)*(s-c))**0.5
print("area of triangle=",area)
```

```
the parameter S is: 10.5
area of triangle= 20.33316256758894
```

Dynamic program of area of triangle equation 2

In [19]:

```
a=int(input("enter the value of a:-"))
b=int(input("enter the value of b:-"))
c=int(input("enter the value of c:-"))
s=(a+b+c)/2
print("the parameter S is:",s)
area=(s*(s-a)*(s-b)*(s-c))**0.5
print("area of triangle:-",area)
```

```
enter the value of a:-8
enter the value of b:-7
enter the value of c:-6
the parameter S is: 10.5
area of triangle:- 20.33316256758894
```

NAME:- RUDRA SAIKIRAN **ENROLLMENT:-20270106138**

PRACTICAL:-4

AIM:-Create a program that asks the user to enter their details and print those details.

In [4]:
```
name=(input("Enter your name:-"))
print("your name is:-",name)
enroll=(input("Enter your Enrollment no:-"))
print("your Enrollment no is:-",enroll)
dept=(input("Enter your Department name:-"))
print("your Department name is:-",dept)
batch=(input("Enter your Batch :-"))
print("your Batch is:-",batch)
tag=(input("Enter your Tagline:-"))
print("your Tagline is:-",tag)
```

```
Enter your name:-RUDRA SAIKIRAN ADINARAYAN
your name is:- RUDRA SAIKIRAN ADINARAYAN
Enter your Enrollment no:-20270106138
your Enrollment no is:- 20270106138
Enter your Department name:-COMPUTER DEPARTMENT
your Department name is:- COMPUTER DEPARTMENT
Enter your Batch :-B2
your Batch is:- B2
Enter your Tagline:-WEBSITE DEVELOPER
your Tagline is:- WEBSITE DEVELOPER
```

NAME:- RUDRA SAIKIRAN **ENROLLMENT:-20270106138**

PRACTICAL:-5

AIM:-Python program to find sum of array.

static program to find sum of array

In [2]:
```
A=[9,18,55,80]
Ans=sum(A)
print('sum of the array is:-',Ans)
```

```
sum of the array is:- 162
```

Dynamic program to find sum of array

In [3]:
```
arr = []
num = int(input("Enter the size of the array: "))
print("Enter array elements: ")
for n in range(num):
  numbers = int(input())
  arr.append(numbers)
print("Sum:", sum(arr))
```

```
Enter the size of the array: 5
Enter array elements:
50
40
30
20
10
Sum: 150
```

NAME:- RUDRA SAIKIRAN **ENROLLMENT:-20270106138**

PRACTICAL:-6

AIM:-Python program to print the elements of an array in reverse order.

static program to print the elements of an array in reverse order.

In [4]:
```
arr = [10, 20, 30, 40, 50];
print("Original array: ");
for i in range(0, len(arr)):
    print(arr[i]),
print("Array in reverse order: ");
for i in range(len(arr)-1, -1, -1):
    print(arr[i]),
```

```
Original array:
10
20
30
40
50
Array in reverse order:
50
40
30
20
10
```

NAME:- RUDRA SAIKIRAN **ENROLLMENT:-20270106138**

PRACTICAL:-7

AIM :- Write Python Scripts for following:

(a) Perform concatenation on string.

(b) Perform indexing and slicing on string.

(c) Manipulate strings with following functions: lower, upper, len, split, strip, lstrip, rstrip.

(a) Perform concatenation on string.

In [1]:
```
str1="RUDRA"
str2=" SAIKIRAN"
str3=" ADINARAYAN"
print ("String 1:",str1)
print ("String 2:",str2)
print ("String 3:",str3)
str=str1+str2+str3
print("Concatenated two different strings:",str)
```

```
String 1: RUDRA
String 2:  SAIKIRAN
String 3:  ADINARAYAN
Concatenated two different strings: RUDRA SAIKIRAN ADINARAYAN
```

(b) Perform indexing and slicing on string.

In [2]:
```
#declare the string
str = "RUDRA SAIKIRAN ADINARAYAN"
print(str[0])
print(str[6])
print(str[15])
str = "RUDRA SAIKIRAN ADINARAYAN"
print(str[-5])
print(str[-7])
print(str[-17])
```

```
R
S
A
R
N
I
```

In [3]:
```
# declaring the string
str = "RUDRA SAIKIRAN ADINARAYAN"

#slicing using indexing sequence
print(str[: 2])
print(str[2 :6 :13])
print(str[-1 :-12 :-2])
```

```
RU
D
NYRND
```

(c) Manipulate strings with following functions: lower, upper, len, split, strip, lstrip, rstrip.

In [14]:
```
#lower string
string = "SAIKIRAN RUDRA"
S = string.lower()
print(S)
```

```
saikiran rudra
```

In [25]:
```
#upper string
string = "Saikiran rudra"
S = string.upper()
print(S)
```

```
SAIKIRAN RUDRA
```

In [16]:
```
#len
languages = ['Python', 'Java', 'JavaScript']
# compute the length of languages
length = len(languages)
print(length)
```

```
3
```

In [18]:
```
# split
s="RUDRA SAIKIRAN ADINARAYAN"
s.split()
```

Out[18]:
```
['RUDRA', 'SAIKIRAN', 'ADINARAYAN']
```

In [23]:
```
#strip
str = "     PROGRAMMING     "
x = str.strip()
print("web", x, "is my favorite subject")
```

```
web PROGRAMMING is my favorite subject
```

In [27]:
```
#Istrp
txt = "     present     "
x = txt.lstrip()
print("today is my", x, "so work")
```

```
today is my present      so work
```

In [29]:
```
#rstrip
txt = "python ,,,,,ssqqqww....."

x = txt.rstrip(",.qsw")

print(x)
```

```
python
```

NAME:- RUDRA SAIKIRAN ENROLLMENT:-20270106138

PRACTICAL:-8

AIM:-Python Program to append element in the list.

Append element in list

In [7]:
```
sub=["java", "python","information security"]
sub.append("robotics");
print(sub)
```

```
['java', 'python', 'information security', 'robotics']
```

In [8]:
```
a = ["front end", "back end", "data base"]
b = ["react js", "php", "my sql"]
a.append(b)
print(a)
```

```
['front end', 'back end', 'data base', ['react js', 'php', 'my sql']]
```

NAME:- RUDRA SAIKIRAN **ENROLLMENT:-20270106138**

PRACTICAL:-9

AIM:-Python Program to add two list and compare two lists.

Add two list

In [1]:
```
list1 = [7, 3, 9, 8]
list2 =[7,3,9,8]
# Sorting list of Integers in ascending
list1.sort()
list2.sort()
print(list1)
print(list2)
if list1 == list2:
 print("list1 and list 2 are equal")
else:
 print("list1 and list2 are not equal")
```

```
[3, 7, 8, 9]
[3, 7, 8, 9]
list1 and list 2 are equal
```

compare two list

In [2]:
```
list1={33,44,55,21}
list2={55,33,21,44}
print("list1 before set =",list1)
print("list2 before set =",list2)
a = set(list1)
b = set(list2)
print("list1 after set =",list1)
print("list2 after set =",list2)
if a == b:
 print("the list1 and list2 are equal")
else:
 print("the list1 and list2 are not equal")
```

```
list1 before set = {33, 44, 21, 55}
list2 before set = {33, 44, 21, 55}
list1 after set = {33, 44, 21, 55}
list2 after set = {33, 44, 21, 55}
the list1 and list2 are equal
```

NAME:- RUDRA SAIKIRAN **ENROLLMENT:-20270106138**

PRACTICAL:-10

AIM:-Python Program to remove an element from a list.

In [1]:
```
ist=["sai","suraj","sagar","niraj","nevil","raj"]
print("before update the list",ist)

ist=["sai","suraj","sagar","niraj","nevil","raj"]
del ist[3]
print("after update the list",ist)
```

```
before update the list ['sai', 'suraj', 'sagar', 'niraj', 'nevil', 'raj']
after update the list ['sai', 'suraj', 'sagar', 'nevil', 'raj']
```

In [17]:
```
thislist = ["apple", "banana", "cherry"]
thislist.remove("banana")
print(thislist)
```

```
['apple', 'cherry']
```

NAME:- RUDRA SAIKIRAN **ENROLLMENT:-20270106138**

PRACTICAL:-11

AIM:-Write a Python program to calculate the average of numbers in a given list.

In [1]:
```
num=int(input("Enter the range of marks to  be entered:-"))
a=[]
for i in range(0,num):
    elem=int(input("Enter the marks out of 100:- "))
    a.append(elem)
avg=sum(a)/num
print("Average marks is:- ",avg)
```

```
Enter the range of marks to  be entered:-5
Enter the marks out of 100:- 60
Enter the marks out of 100:- 70
Enter the marks out of 100:- 90
Enter the marks out of 100:- 80
Enter the marks out of 100:- 50
Average marks is:-  70.0
```

NAME:- RUDRA SAIKIRAN **ENROLLMENT:-20270106138**

PRACTICAL:-12

AIM:-Write a Python to find maximum and minimum out of tuple without using built in function.

In [2]:
```
t = tuple()
n=int(input("Total number of values in tuple:-  "))
for i in range(n):
    a=input("Enter element:-  ")
    t=t+(a,)
print(t)
minimum = t[0]
maximum = t[0]
for i in t:
    if i >= maximum:
        maximum=i
    if i <= minimum:
        minimum=i
print("minimum:",minimum)
print("maximum:",maximum)
```

```
Total number of values in tuple:-  5
Enter element:-  33
Enter element:-  26
Enter element:-  34
Enter element:-  92
Enter element:-  80
('33', '26', '34', '92', '80')
minimum: 26
maximum: 92
```

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PRACTICAL:-13

AIM:-Write a Python Program to do Sum of tuple elements.

In [2]:
```
tuple=(55,99,88,11,12)
tup=sum(tuple)
print("The sum of tuple is :- ",tup)
```

```
The sum of tuple is :-  265
```

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PRACTICAL:-14

AIM:-Write a Python script to sort (ascending and descending) a dictionary by value.

In [2]:
```
a= {1:2,2:1,4:3,3:4,6:5,5:6}
print("dictionary:",a)
ass= sorted(a.items())
print("assending by items",ass)
ass= sorted(a.items(), reverse= True)
print("desending by items",ass)
ass= sorted(a.keys())
print("assending by keys",ass)
ass= sorted(a.keys(), reverse= True)
print("desending by keys",ass)
ass= sorted(a.values())
print("assending by value",ass)
des=sorted (a.values(), reverse= True)
print("desending by value",des)
```

```
dictionary: {1: 2, 2: 1, 4: 3, 3: 4, 6: 5, 5: 6}
assending by items [(1, 2), (2, 1), (3, 4), (4, 3), (5, 6), (6, 5)]
desending by items [(6, 5), (5, 6), (4, 3), (3, 4), (2, 1), (1, 2)]
assending by keys [1, 2, 3, 4, 5, 6]
desending by keys [6, 5, 4, 3, 2, 1]
assending by value [1, 2, 3, 4, 5, 6]
desending by value [6, 5, 4, 3, 2, 1]
```

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PRACTICAL:-15

AIM:-Write a Python program to add, search and delete entries of a phone with its model number in a dictionary.

In [1]:
```
dic1={'M1':101, 'M2':102, 'M3':103}
print("Press 1 for add model number and phone number:")
print("Press 2 for delete using model number")
print("Press 3 for search model number")
ch=int(input("Enter your choice:"))

if(ch==1):
    k=input("Enter model number:")
    v=input("Enter phone number:")
    dic1[k]=v

elif(ch==2):
    k=input("Enter model number:")
    del dic1[k]

elif(ch==3):
    k=input("Enter model number:")
    model=dic1.get(k,-1)
    if(model == -1):
        print("Key is not present")
    else:
        print("Key{} & value{}".format(k,model))
print(dic1)
```

```
Press 1 for add model number and phone number:
Press 2 for delete using model number
Press 3 for search model number
Enter your choice:1
Enter model number:M4
Enter phone number:104
{'M1': 101, 'M2': 102, 'M3': 103, 'M4': '104'}
```

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PRACTICAL:-16

AIM:-Write a Python Program to check whether a passed letter is a vowel or not.

In [1]:
```
ch = input("Enter a character :-")

if(ch=='A' or ch=='a' or ch=='E' or ch=='e' or ch=='I'
   or ch =='i' or ch=='O' or ch=='o' or ch=='U' or ch=='u'):
    print(ch, "is a vowel")
else:
    print(ch, "is a constant")
```

```
Enter a character :-8
8 is a constant
```

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PRACTICAL:-17

AIM:-Write a python program to find the factorial of a given number.

In [1]:
```
num = int(input("Enter a number :-"))

factorial = 1

if num < 0:
    print("sorry, factorial does not exist for negative numbers")
elif num == 0:
    print("The factorial of 0 is 1")
else:
    for i in range(1,num+1):
         factorial = factorial*i
    print("The factorial of",num,"is",factorial)
```

```
Enter a number :-9
The factorial of 9 is 362880
```

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PRACTICAL:-18

AIM:-Write a Python program to find the largest among three numbers.

In [2]:
```
a=int(input("Enter a value:-"))
b=int(input("Enter a value:-"))
c=int(input("Enter a value:-"))
if(a>b and a>c):
    print("a max")
elif(b>a and b>c):
    print("b max")
else:
    print("c max")
```

```
Enter a value:-8
Enter a value:-9
Enter a value:-4
b max
```

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PRACTICAL:-19

AIM:-Find sum of series using while loop.

In [4]:
```
sum = 0
num = int(input("Enter a number: "))
if num < 0:
 print("Please enter a positive number")
else:
 sum = 0
while num > 0:
 sum=sum+num
 num=num-1
print("The sum is", sum)
```

```
Enter a number: 54
The sum is 1485
```

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PRACTICAL:-20

AIM:-Write a program that prints the integers from 1 to 100. But for multiples of three print "Fizz" instead of the number, and for the multiples of five print "Buzz". For numbers which are multiples of both three and five print "FizzBuzz".

In [2]:
```
N=int(input("Enter Number:"))
for i in range(1,N+1):
 if i%15==0:
  print("FizzBuzz")
 elif i%3==0:
  print("Fizz")
 elif i%5==0:print("Buzz")
 else:print(i)
```

```
Enter Number:100
1
2
Fizz
4
Buzz
Fizz
7
8
Fizz
Buzz
11
Fizz
13
14
FizzBuzz
16
17
Fizz
19
Buzz
Fizz
22
23
Fizz
Buzz
26
Fizz
28
29
FizzBuzz
31
32
Fizz
34
Buzz
Fizz
37
38
Fizz
Buzz
41
```

Fizz
43
44
FizzBuzz
46
47
Fizz
49
Buzz
Fizz
52
53
Fizz
Buzz
56
Fizz
58
59
FizzBuzz
61
62
Fizz
64
Buzz
Fizz
67
68
Fizz
Buzz
71
Fizz
73
74
FizzBuzz
76
77
Fizz
79
Buzz
Fizz
82
83
Fizz
Buzz
86
Fizz
88
89
FizzBuzz
91
92
Fizz
94
Buzz
Fizz
97
98
Fizz
Buzz

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PRACTICAL:-21

AIM:-Write a function called greet() that takes one string parameter called name and displays the text "Hello !", where is replaced with the value of the name parameter.

In [1]:
```
def greet():
    # Enclosing function
    name = input("Enter a name: ")

    def hello():
        print('Hello '+name)

    hello()

greet()
```

```
Enter a name: saikiran
Hello saikiran
```

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PRACTICAL:-22

AIM:-Write a Python program to swap two numbers using function.

In [1]:
```
def swap():
    x= int(input('Enter a:'))
    y= int(input('Enter b:'))
    print('Before swapping a :', x)
    print('Before swapping b :',y)
    #logic to swap without using third variable
    x,y=y,x
    print('After swapping a becomes :',x)
    print('After swapping b becomes :',y)

swap()
```

```
Enter a:79
Enter b:53
Before swapping a : 79
Before swapping b : 53
After swapping a becomes : 53
After swapping b becomes : 79
```

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PRACTICAL:-23

AIM:-Demonstrate the use of arguments in python functions.

In [2]:
```
# a, b, c are arguments of the function
def my_sum(a, b, c):
    s = a + b + c
    return s

print('Total is:', my_sum(90, 50, 70))
```

```
Total is: 210
```

In [4]:
```
def my_sum(a, b, c,d=40):
    s = a + b + c +d
    return s

print('Total is:', my_sum(97,85,c=85))
```

```
Total is: 307
```

In [5]:
```
def percentage(sub1, sub2, sub3):
    avg = (sub1 + sub2 + sub3) / 3
    print('Average', avg)

percentage(96, 76,74)
```

```
Average 82.0
```

In [6]:
```
def percentage(*subjects):
    sum = 0
    for i in subjects:
        # get total
        sum = sum + i
    # calculate average
    avg = sum / len(subjects)
    print('Average =', avg)

percentage(56, 61,66,77,88)
```

```
Average = 69.6
```

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PRACTICAL:-24

AIM:-Write a function to check the input value is Armstrong and write the function for Palindrome.

In [1]:
```
def Armstrong(n,o):
    sum = 0
    temp = n
    while temp > 0:
       digit = temp % 10
       sum += digit ** o
       temp = temp//10
    if n == sum:
       print(n,"is an Armstrong number")
    else:
       print(n,"is not an Armstrong number")

num = int(input("Enter Number: "))
order = len(str(num))
Armstrong(num,order)
```

```
Enter Number: 59
59 is not an Armstrong number
```

In [2]:
```
# function which return reverse of a string

def isPalindrome(s):
    return s == s[::-1]


# Driver code
s = input("Enter string: ")
ans = isPalindrome(s)

if ans:
    print("Yes, it's Palindrome")
else:
    print("No, it's not Palindrome")
```

```
Enter string: 777
Yes, it's Palindrome
```

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PRACTICAL:-25

AIM:-Design a class that store the information of student and display the same.

In [6]:
```
class Student:
    def getStudentDetails(self):
        self.rollno=input("Enter Roll Number : ")
        self.name = input("Enter Name : ")
        self.infs =int(input("Enter is Marks : "))
        self.python = int(input("Enter python Marks : "))
        self.java = int(input("Enter java Marks : "))

    def printResult(self):
        self.percentage = (int)( (self.infs + self.python + self.java) / 300 * 100 );
        print('Roll No:',self.rollno,
              'Name:',self.name,
              'Persentage:',self.percentage)

S1=Student()
S1.getStudentDetails()

print("Result : ")
S1.printResult()

S1.java += 9

print("result after adding grace marks...")
S1.printResult()
```

```
Enter Roll Number : 138
Enter Name : RUDRA SAIKIRAN
Enter is Marks : 80
Enter python Marks : 90
Enter java Marks : 60
Result :
Roll No: 138 Name: RUDRA SAIKIRAN Persentage: 76
result after adding grace marks...
Roll No: 138 Name: RUDRA SAIKIRAN Persentage: 79
```

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PRACTICAL:-26

AIM:-Implement the concept of inheritance using python.

In [1]:
```
'''Create a Parent Class named Person, with firstname and lastname properties,
and a printname method:'''
class Person:
  def __init__(self, fname, lname):
    self.firstname = fname
    self.lastname = lname

  def printname(self):
    print(self.firstname, self.lastname)

"""Use the Person class to create an object, and then execute the printname
method:"""

x = Person("RUDRA", "SAIKIRAN")
x.printname()

"""Create a child class named Student, which will inherit the properties and
methods from the Person class:"""

class Student(Person):
  pass

"""Use the pass keyword when you do not want to add any other properties
or methods to the class.
Now the Student class has the same properties and methods as the Person class.
Use the Student class to create an object and then execute the printname method:"""

x = Student("RUDRA", "JAYESH")
x.printname()
```

```
RUDRA SAIKIRAN
RUDRA JAYESH
```