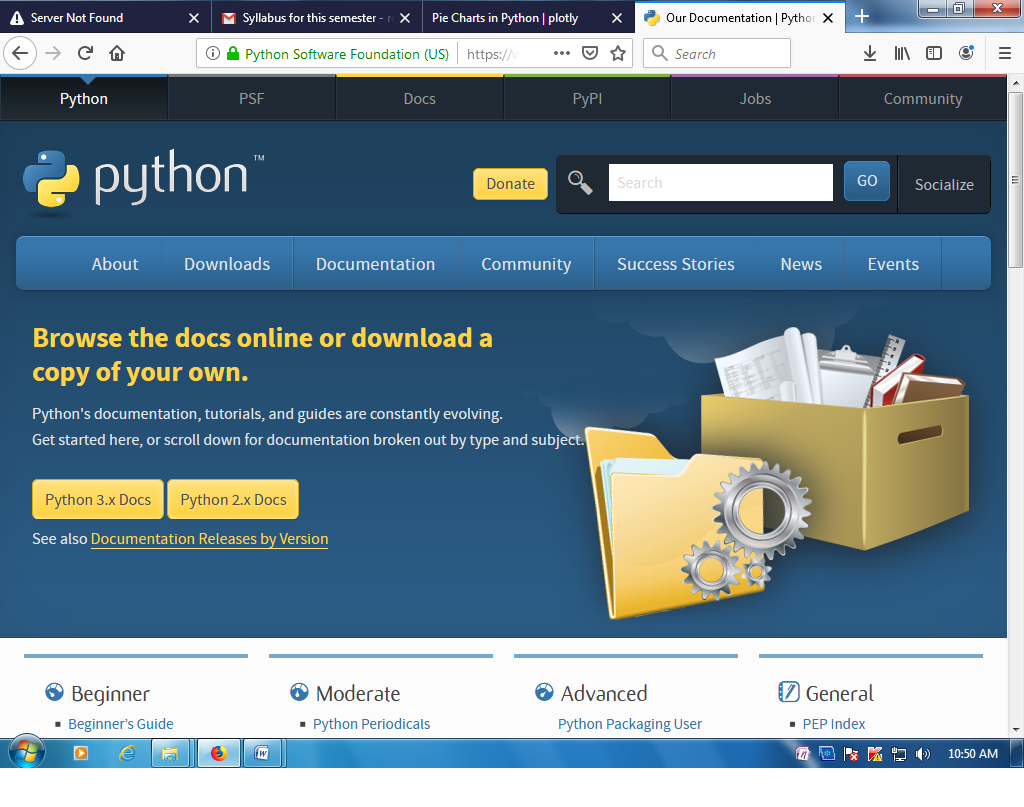
**Python Programming Lab**

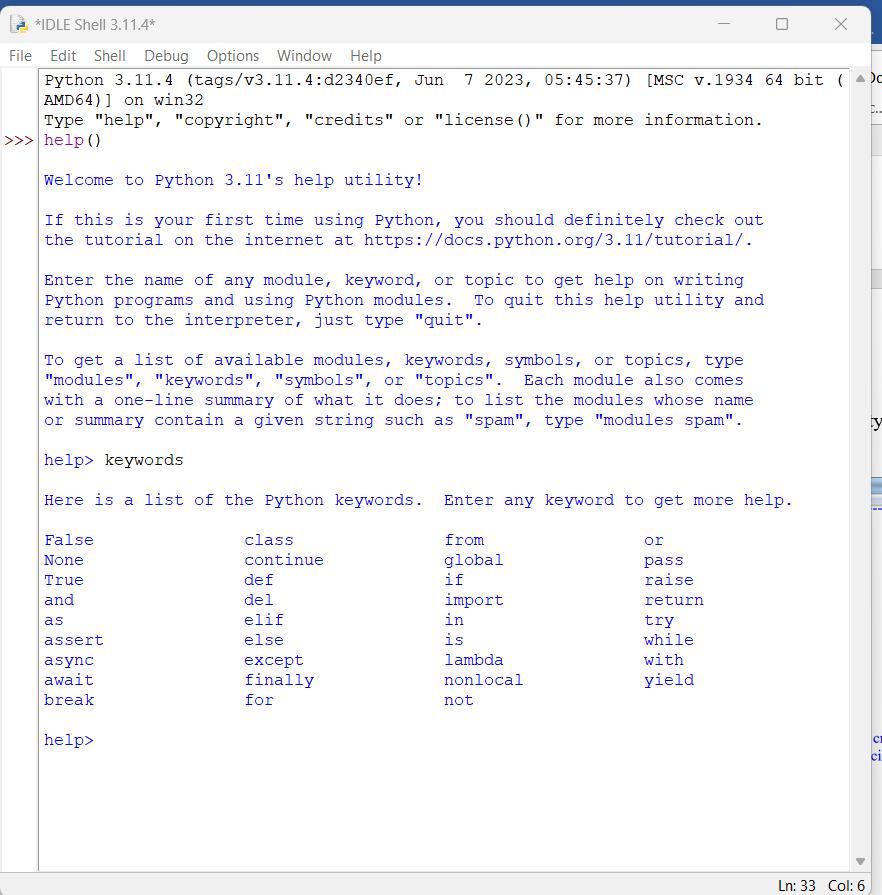
**Week -1:**

Use a web browser to go to the Python website http://python.org.

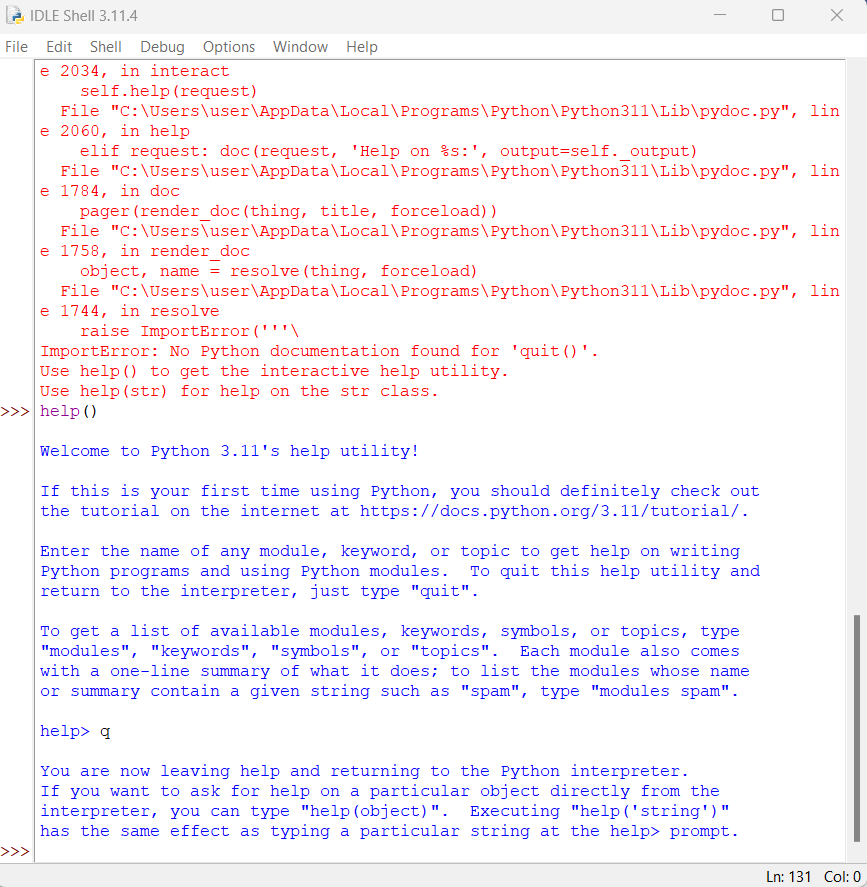
This page contains information about Python and links to Python-related pages, and it gives you the ability to search the Python documentation.

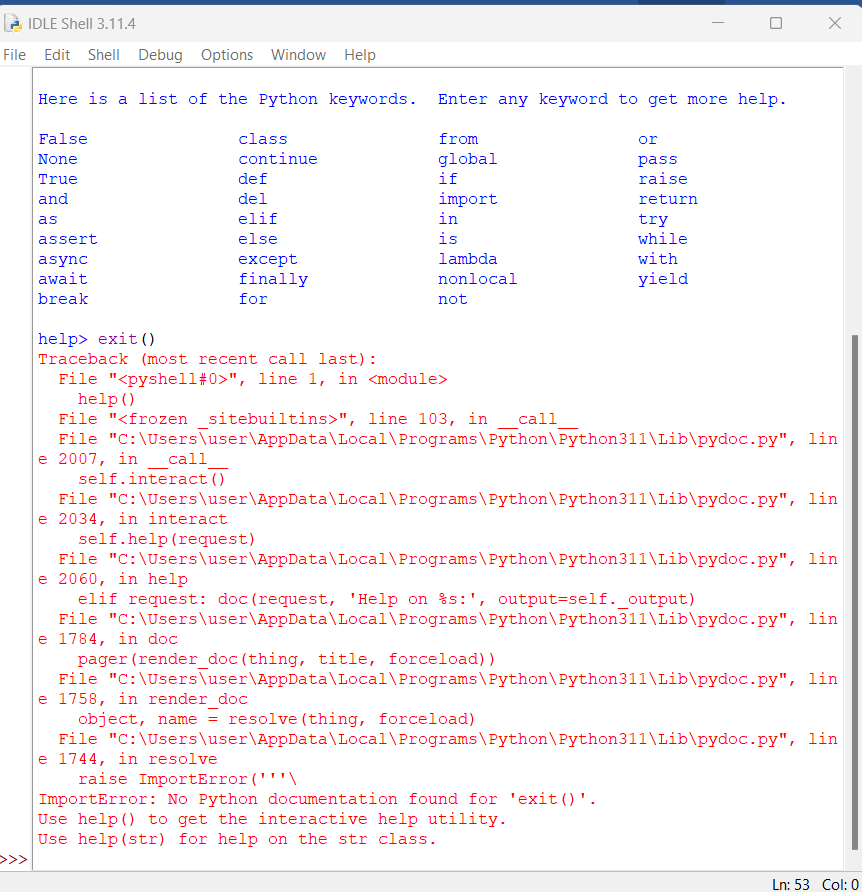
****

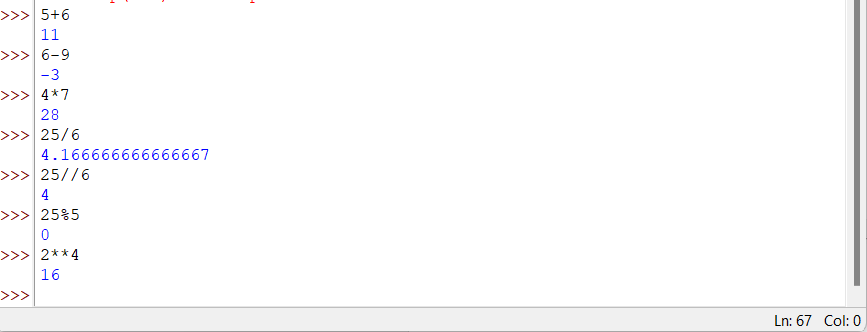
2. Start the Python interpreter and type help() to start the online help utility.



3. Start Python interpreter and use it as Calculator.

****

****

****

**Week -2:77**

1. If you run a 10 kilometer race in 43 minutes 30 seconds, what is your average time per mile? What is your average speed in miles per hour? (Hint: there are 1.61 kilometers in a mile).

minutes = 43.5

hours = minutes / 60

km\_per\_mile = 1.61

km = 10

miles = km / km\_per\_mile

tpm = minutes / miles

mph = miles / hours

print('Average time per mile:', tpm)

print('Average speed in mph:', mph)

Output:

Average time per mile: 7.003500000000001

Average speed in mph: 8.567144998929106

1. Find the volume of a sphere with radius r is 5? (Use Sphere volume formula)

pi = 3.1415926535897931

r = 5

V= 4.0/3.0\*pi\* r\*\*3

print('The volume of the sphere is: ',V)

**output**

The volume of the sphere is: 523.5987755982989

1. Suppose the cover price of a book is $24.95, but bookstores get a 40% discount.

Shipping costs $3 for the first copy and 75 cents for each additional copy. What is the

total wholesale cost for 60 copies?

bookCost = 24.95

numBooks = 60.0

def cost(numBooks):

bulkBookCost = ((bookCost \* 0.60) \* numBooks)

shippingCost = (3.0 + (0.75 \* (numBooks - 1)))

totalCost = bulkBookCost + shippingCost

print ('The total cost is: $', totalCost)

cost(numBooks)

**Output**

The total cost is: $ 945.4499999999999