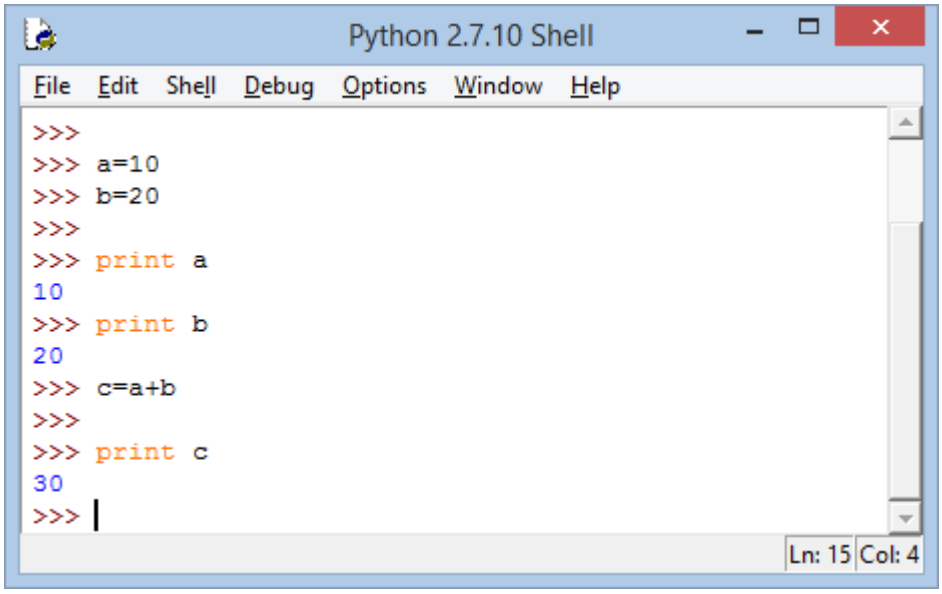
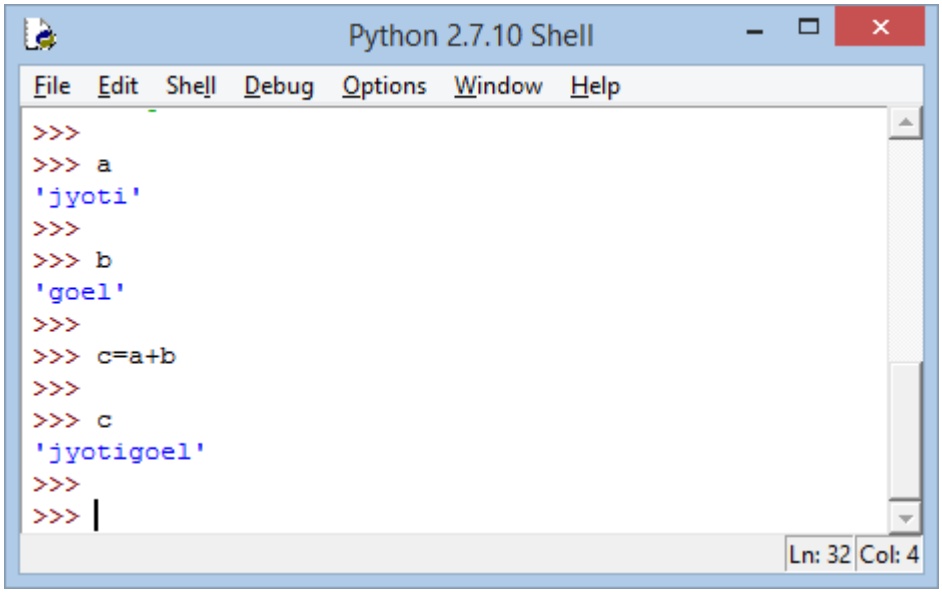
Quick Overview to Python Core

Note – The guide is important who want to have a quick overview over the basics of python. Programs are written along with output and screenshot.

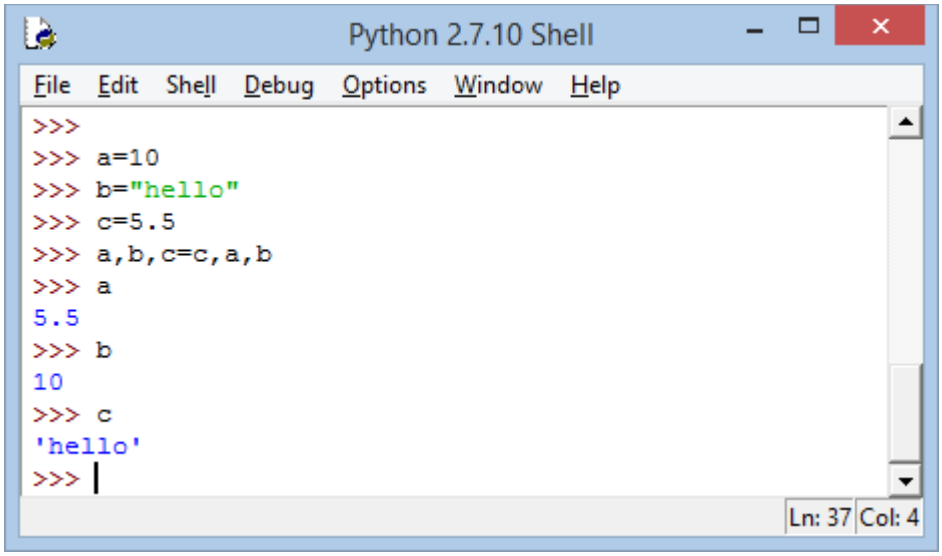
/* Ques1. A program to add two numbers and print their sum. */



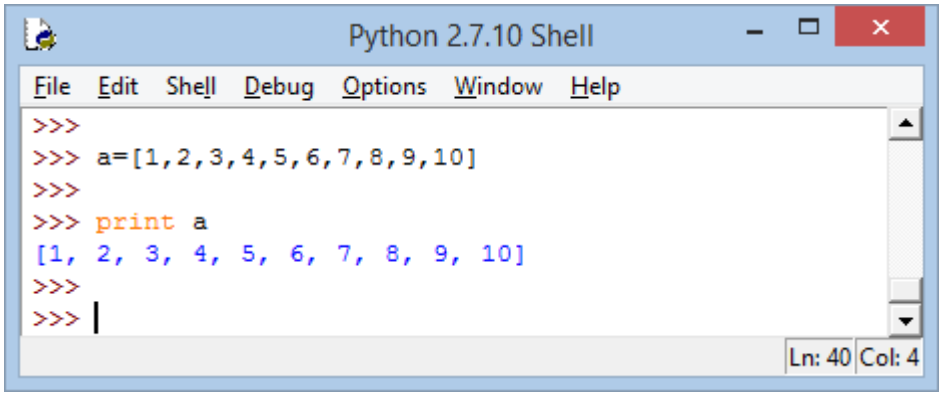
/* Ques2. A program to take two strings and concatenate them */



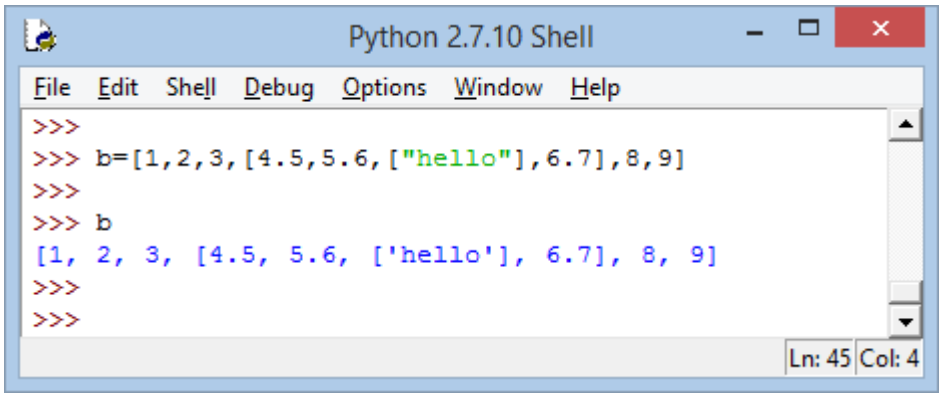
/* Ques3. Program to swap an integer, a float and a character value. */



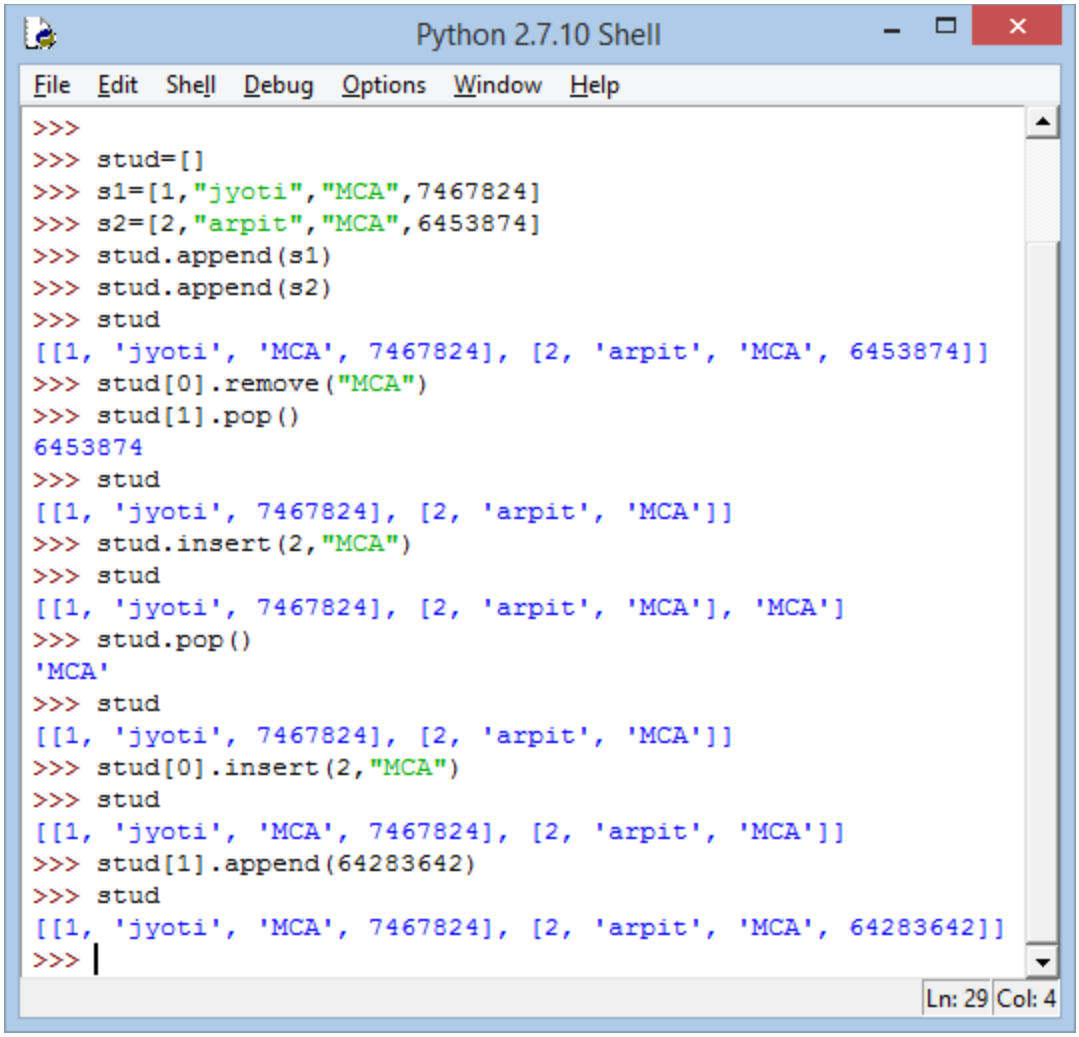
/* Ques4. Create a python list from 1 to 10. */



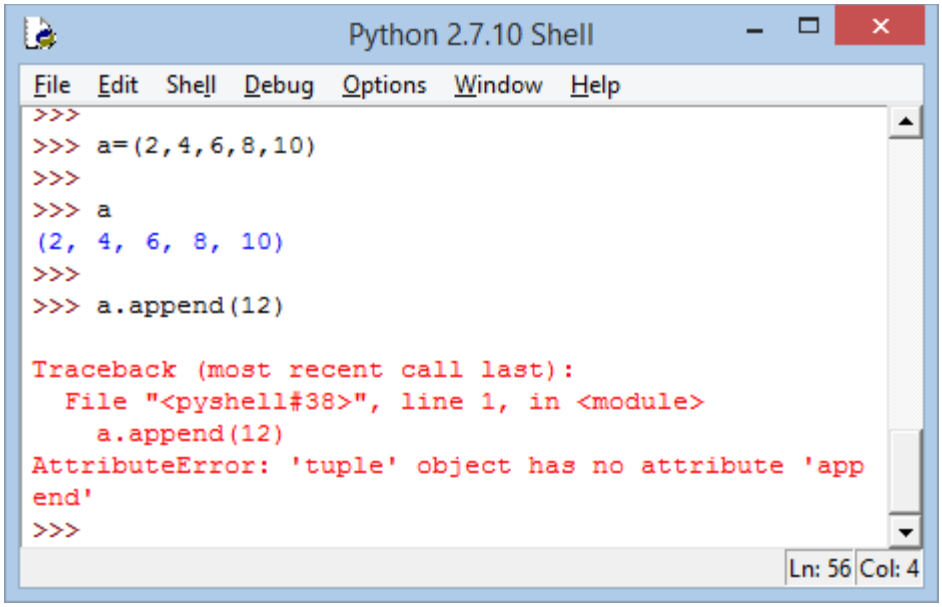
/* Ques5. Create a nested list including numbers and characters. */



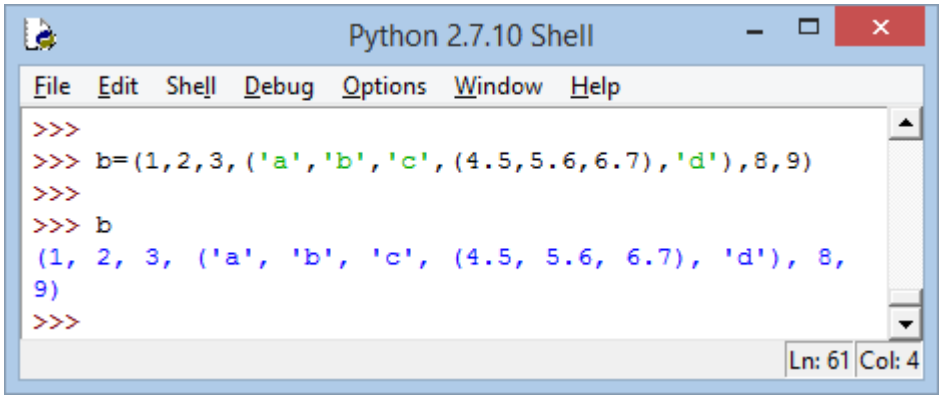
/* Ques6. Program to create and maintain students record. */



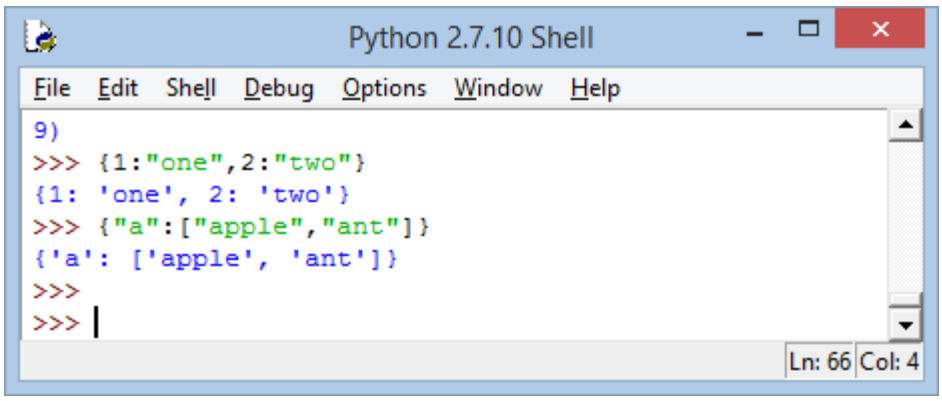
/* Ques7. Create a tuple of 5 numbers. */



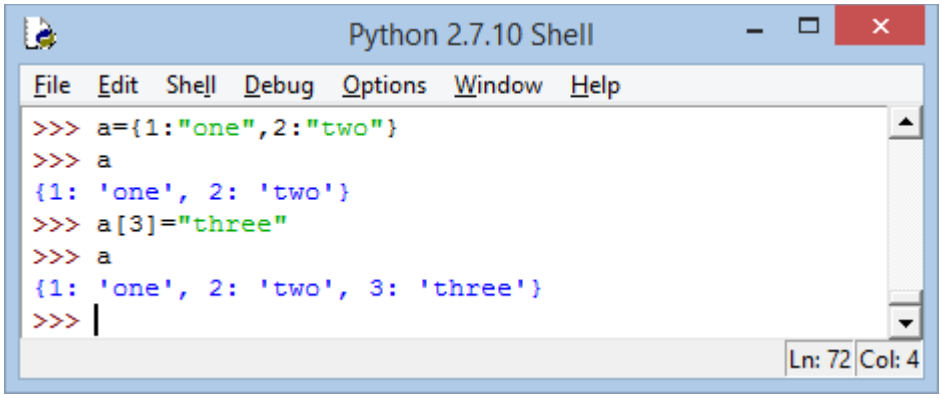
/* Ques8. Create a nested tuple including numbers and characters. */



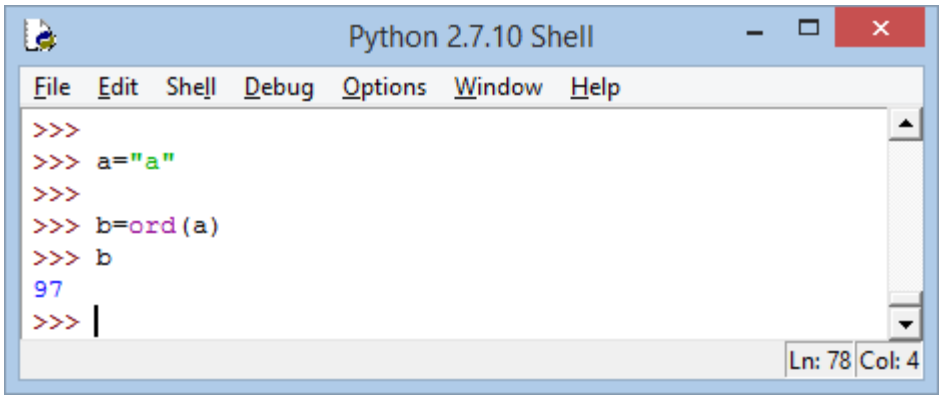
/* Ques9. Create a dictionary. */



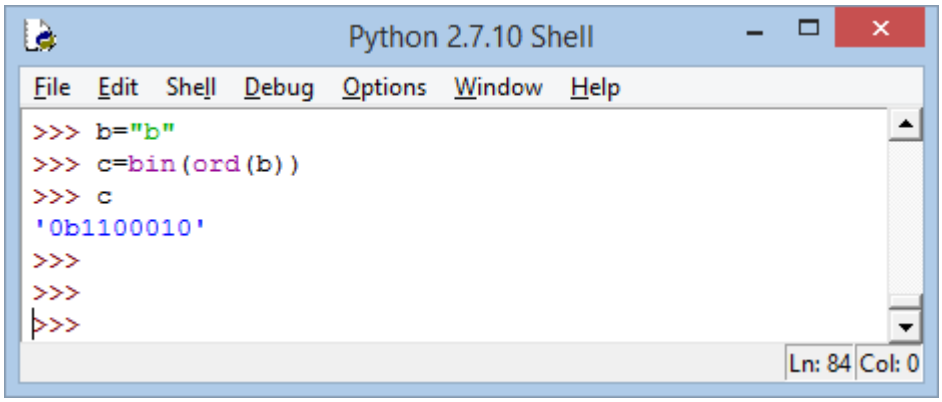
/* Ques10. Add values in a pre-defined dictionary. */



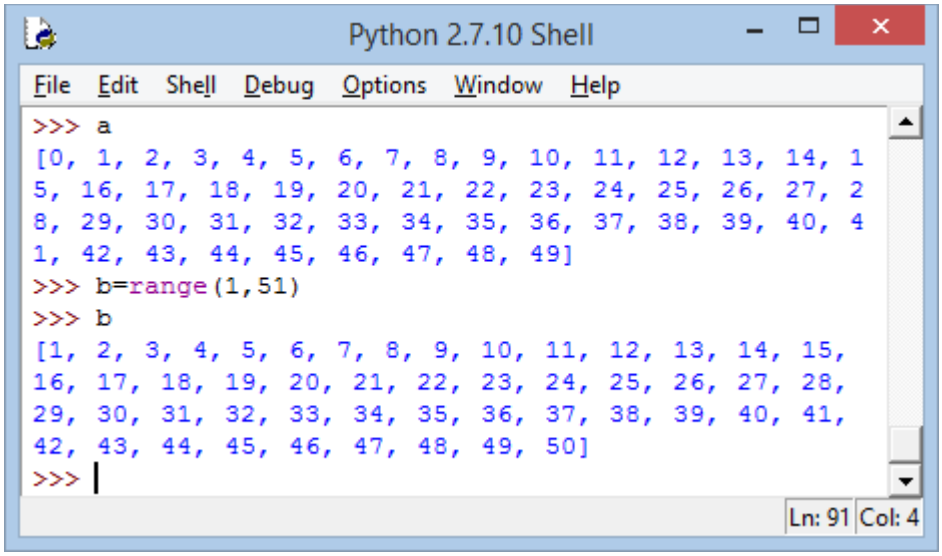
/* Ques11. Print ASCII value of character.*/



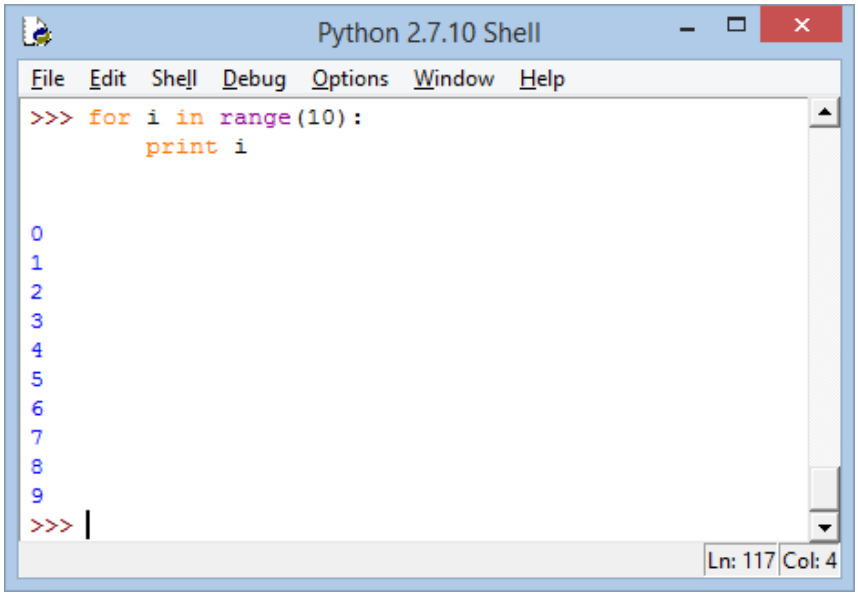
/* Ques12. Print binary value of a character. */



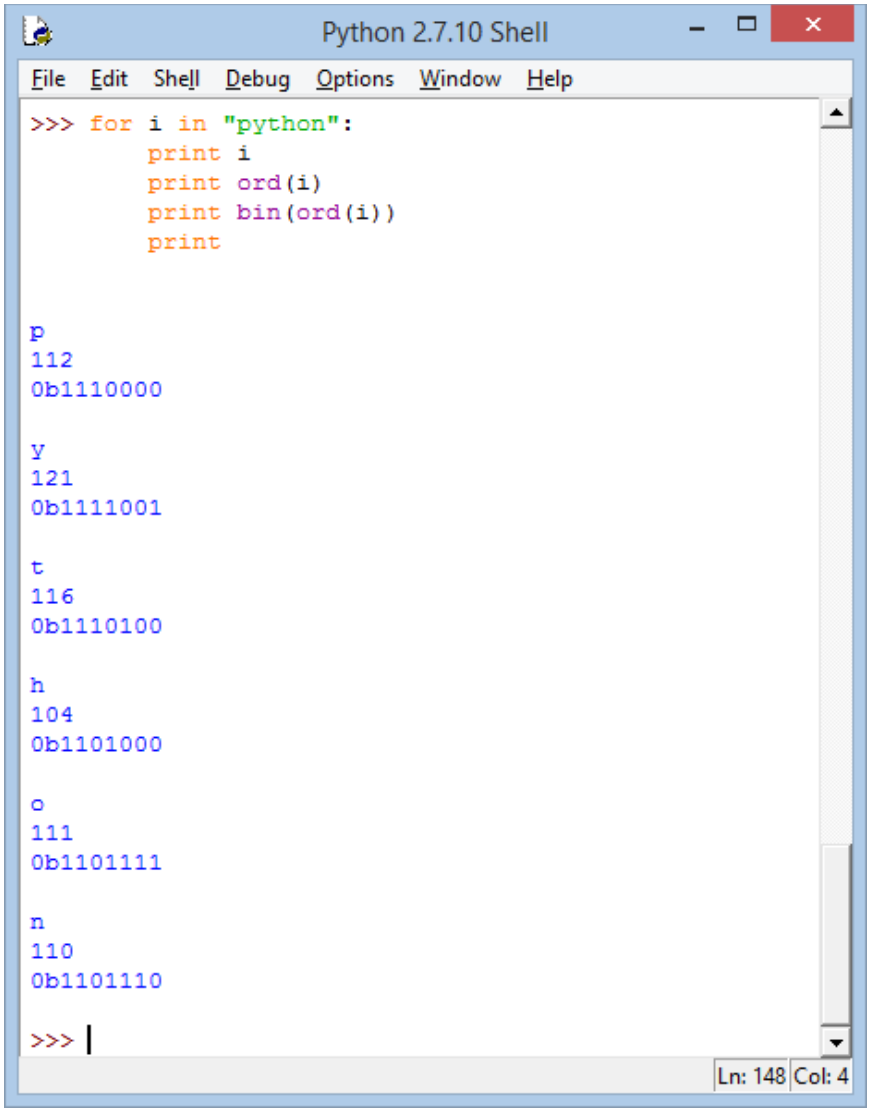
/* Ques13. Program to print 50 numbers using range() function. */



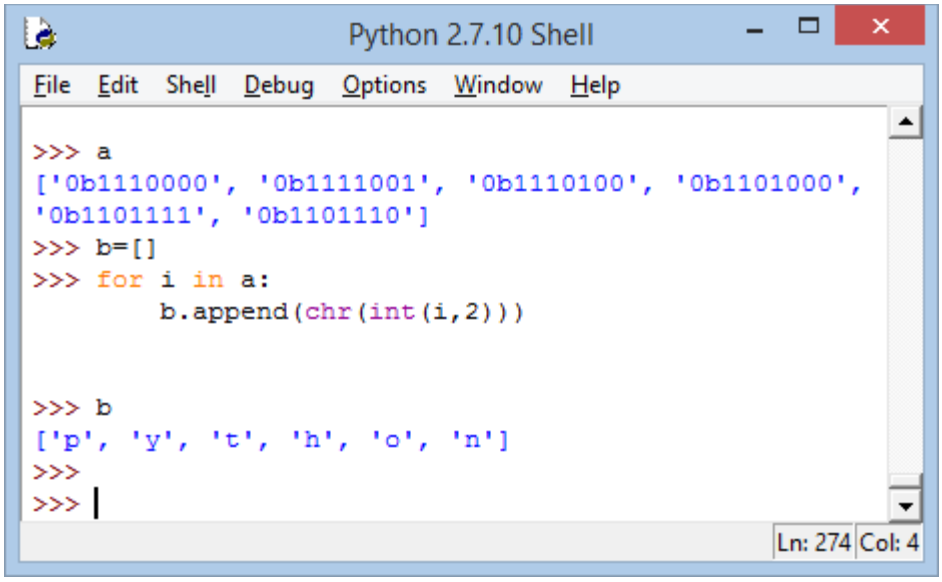
/* Ques14. Program to print 10 numbers using for loop. */



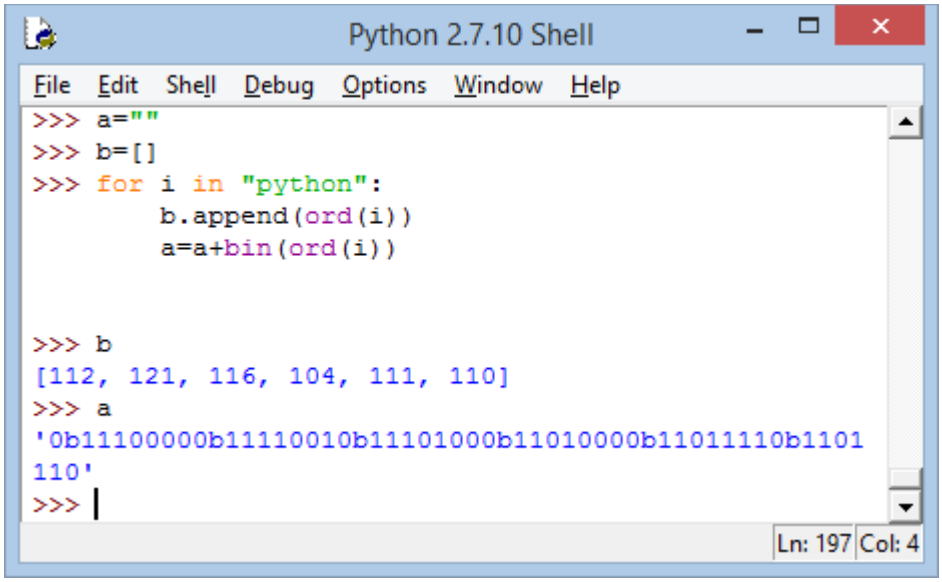
/*Ques15. Program to print ASCII and binary value of a string character by character. */



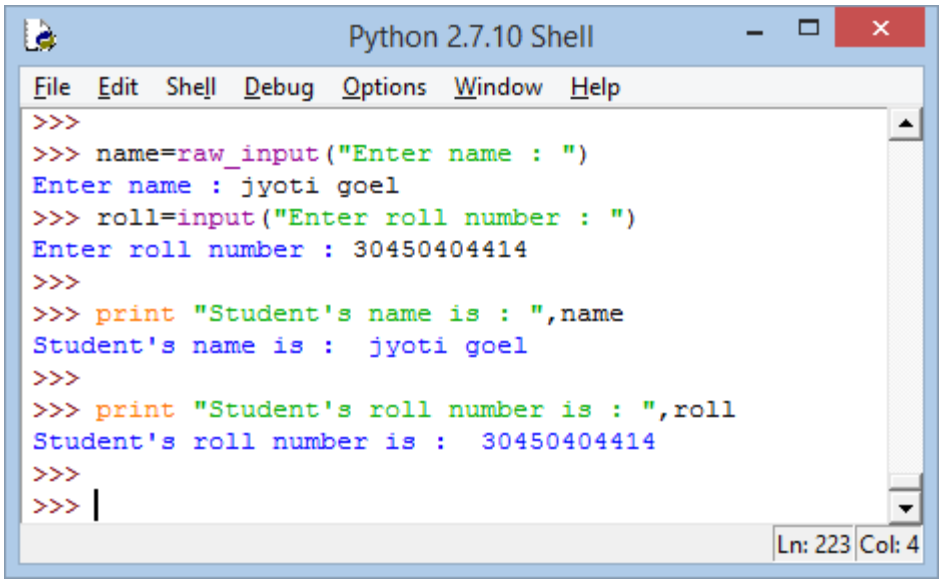
/* Ques16. Program to convert binary list into a characters list. */



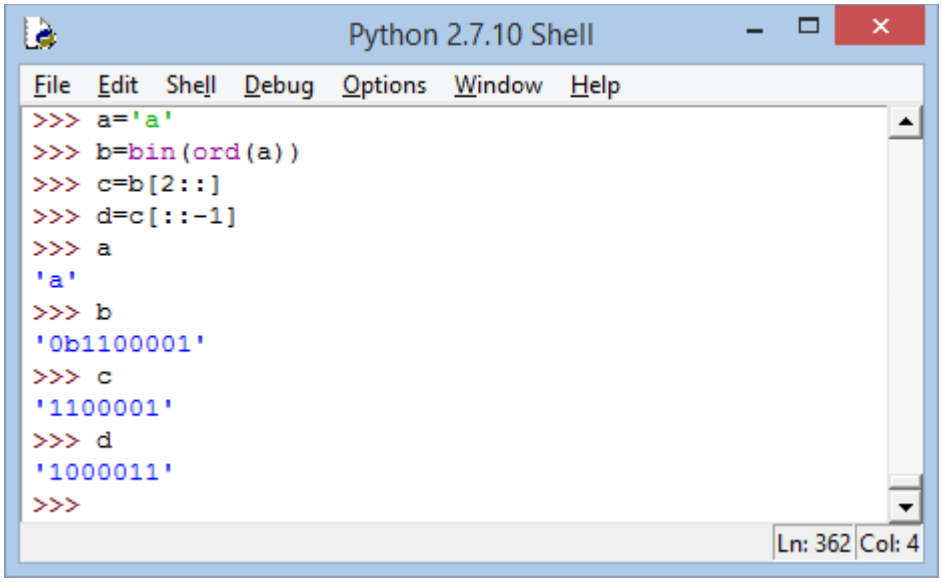
/* Ques17. Create an ASCII list and a binary string of a given string. */



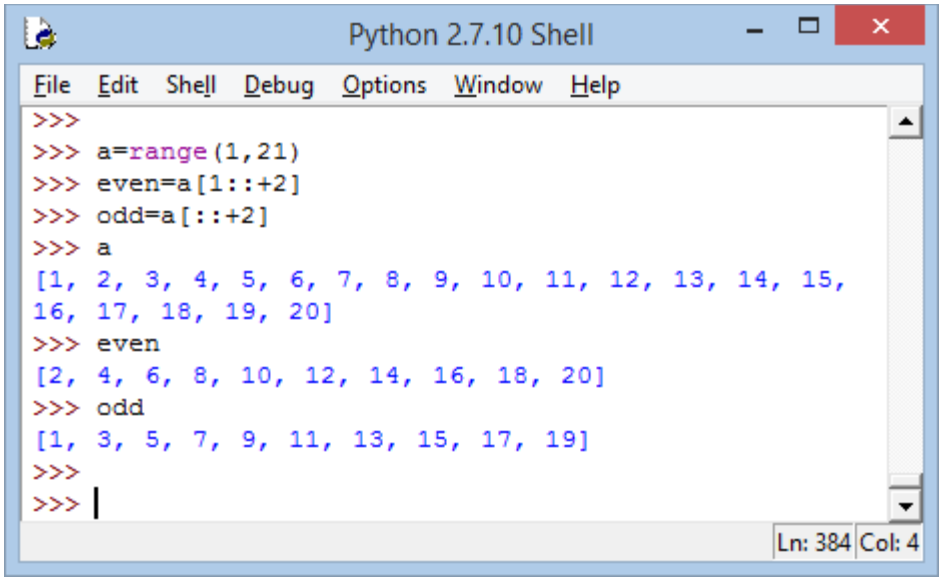
/* Ques18. Take name and roll number as an input from a student. */



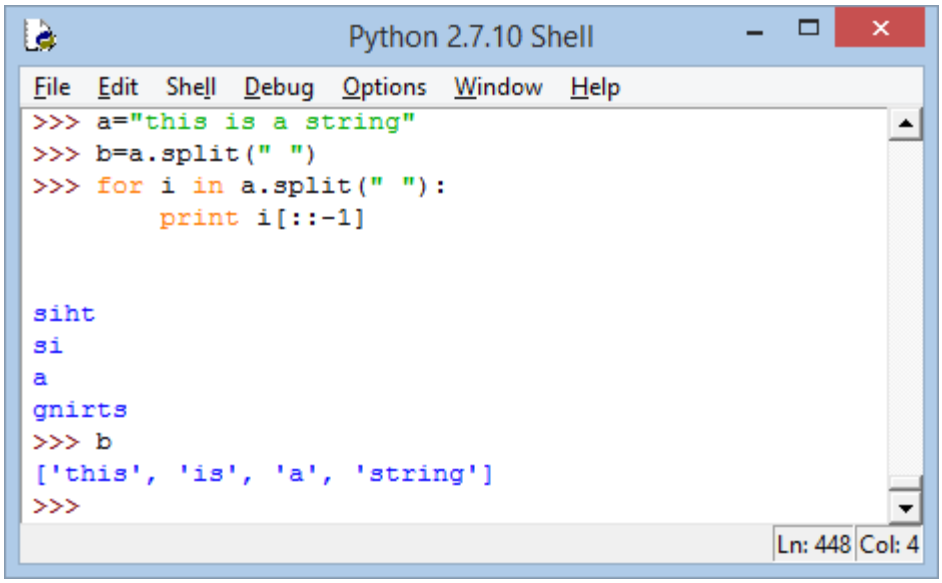
/* Ques19. Program to print binary value of a character and then print it in reverse order. */



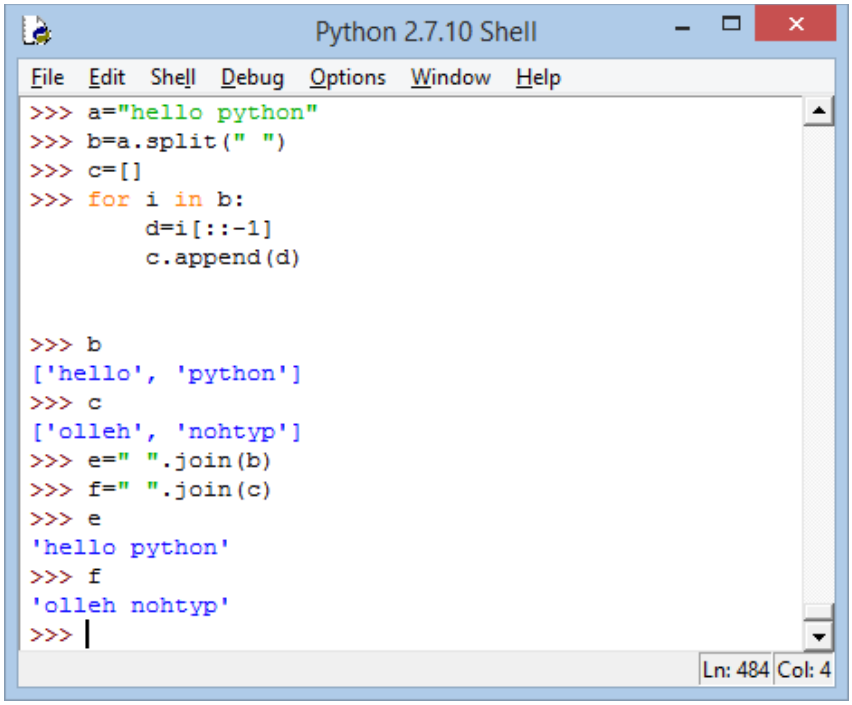
/* Ques20. Print a list containing numbers from 1 to 20. Then print even and odd numbers from this list separately. */



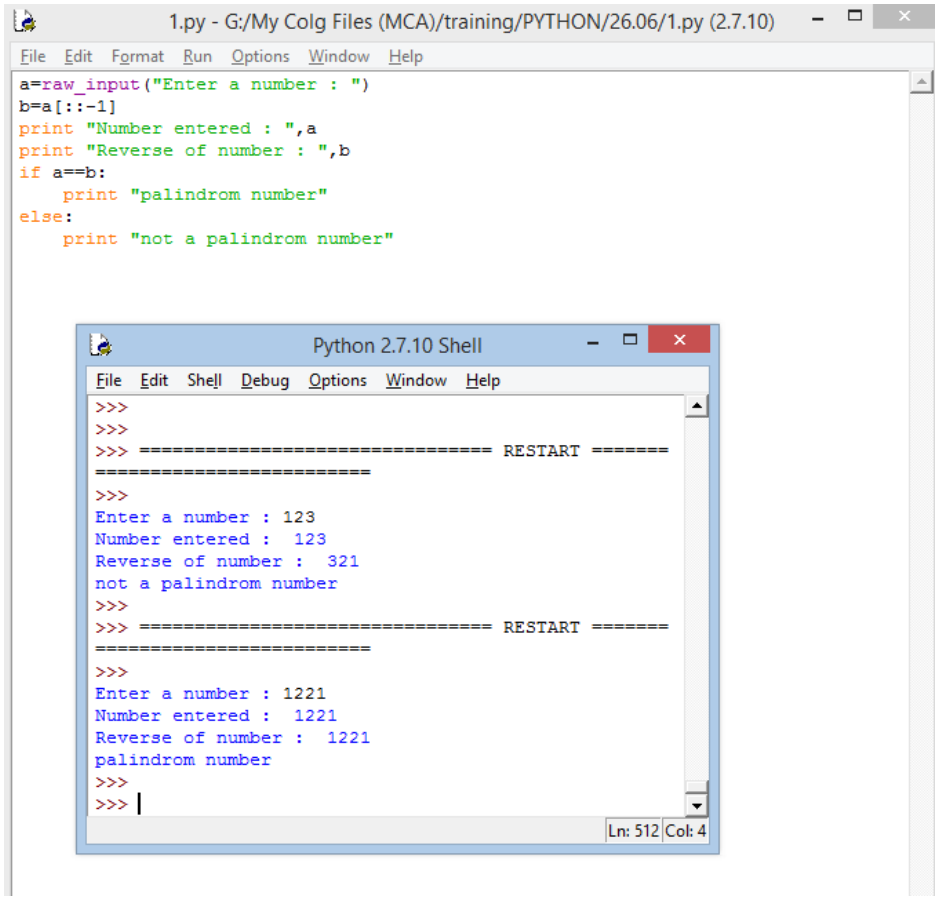
/* Ques21. Program to split a string into words and print the individual word in reverse order.*/



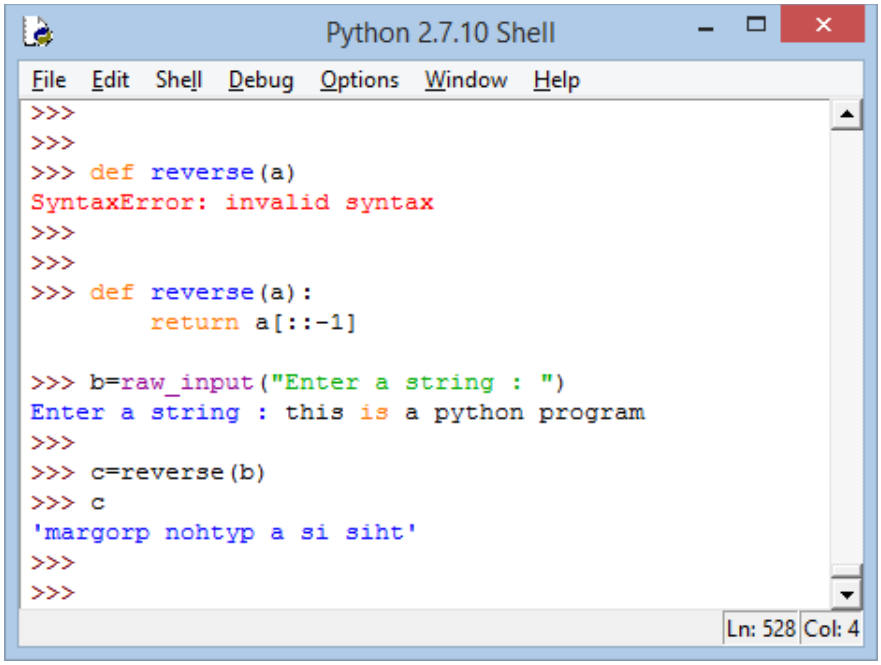
/* Ques22. Program to split a string, reverse each word and join them to form a reversed string. */



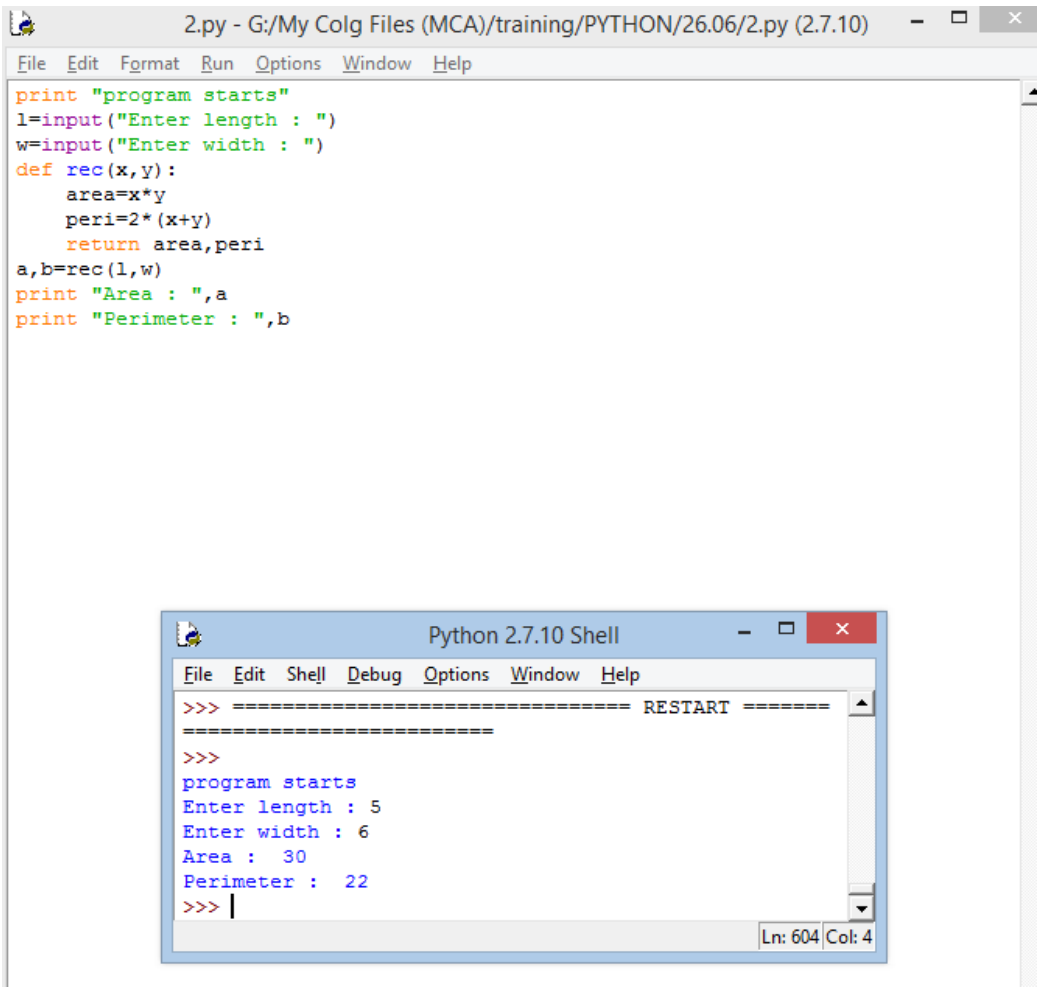
/* Ques23. Program to find palindrome number using if else statements.*/



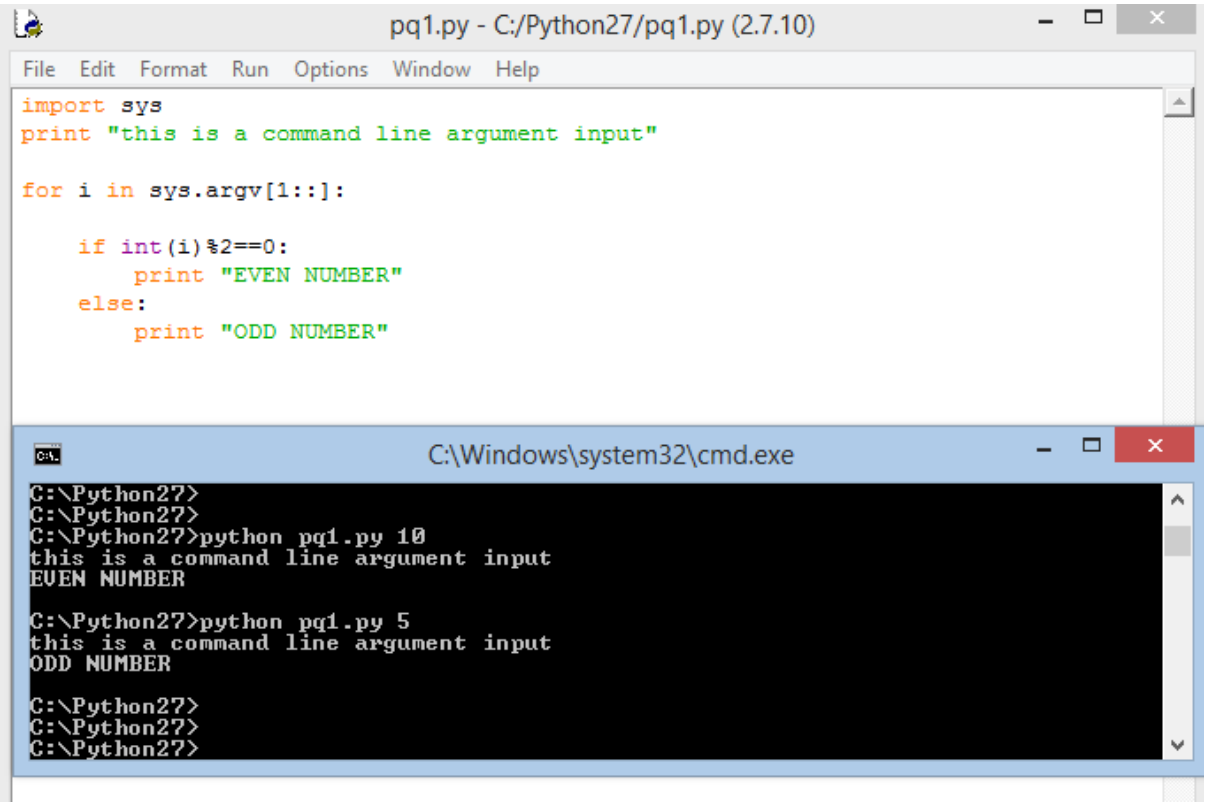
/* Ques24. Program to reverse a string using function. */



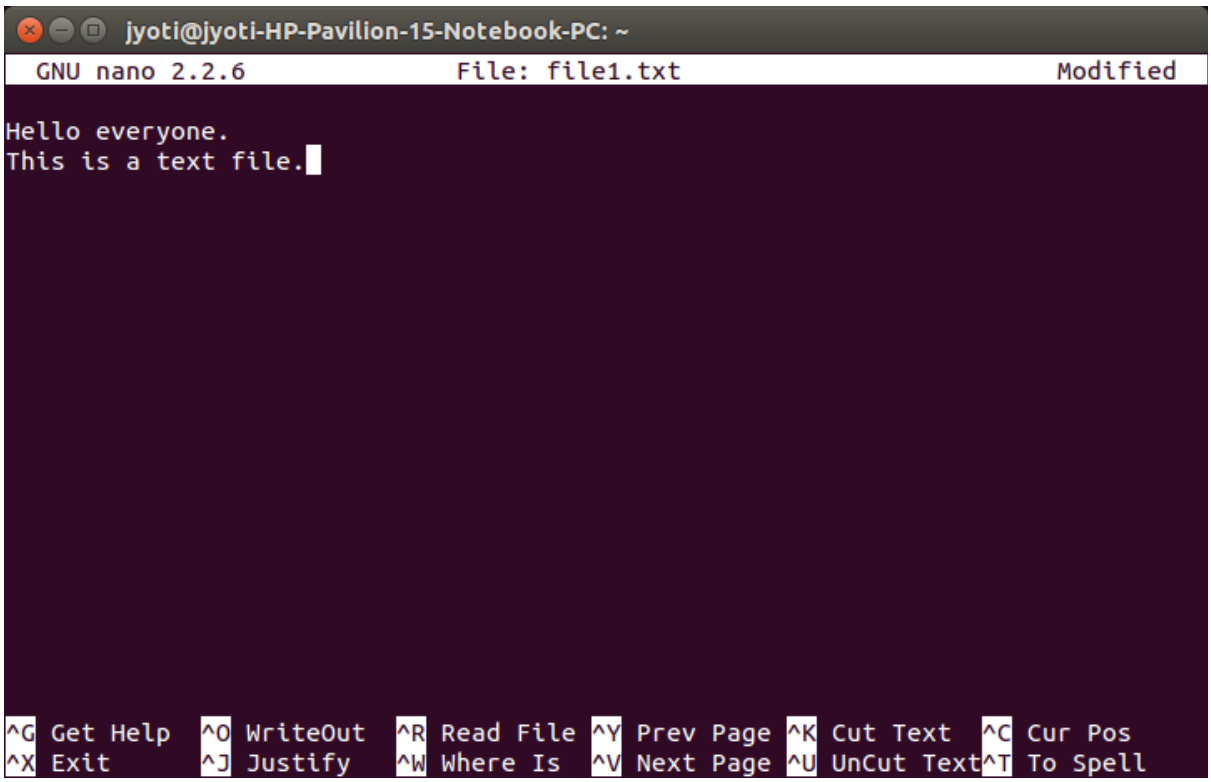
/* Ques25. Program to create a function which produces area and perimeter of a rectangle and return both. */

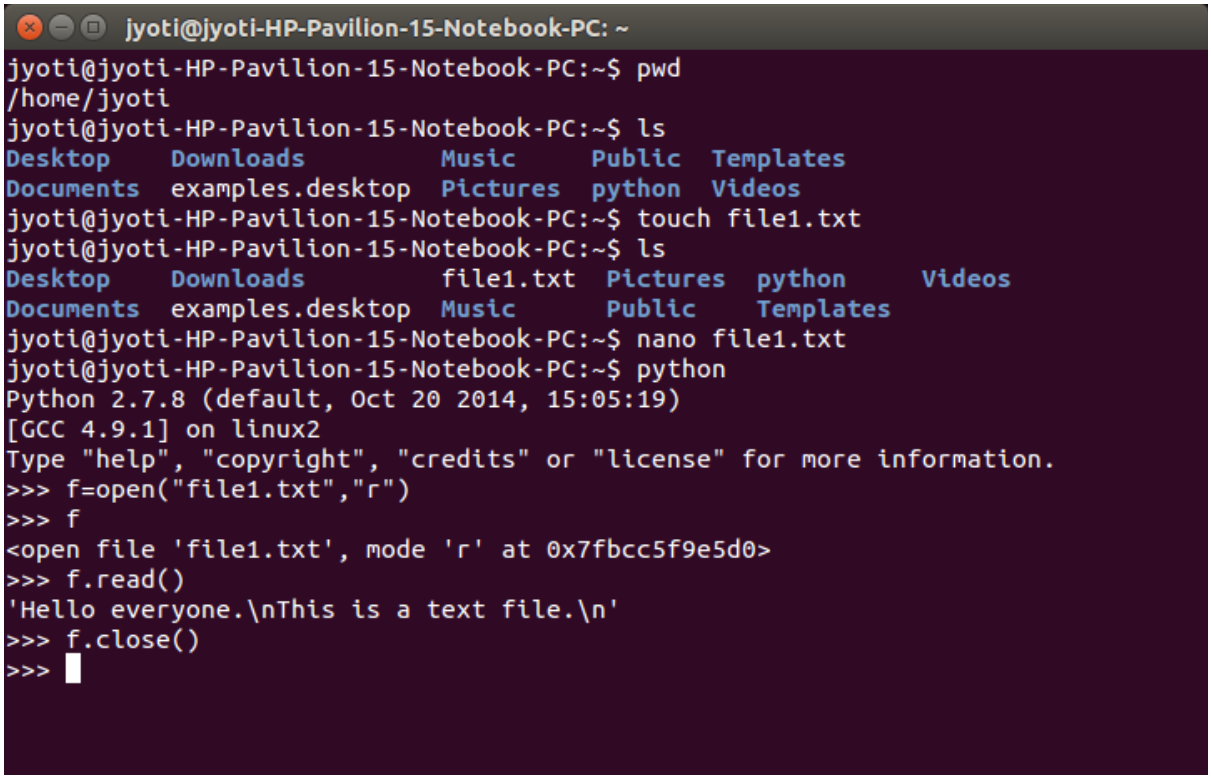


/* Ques26. Program to find number entered is even of odd. Input is a command line argument. */

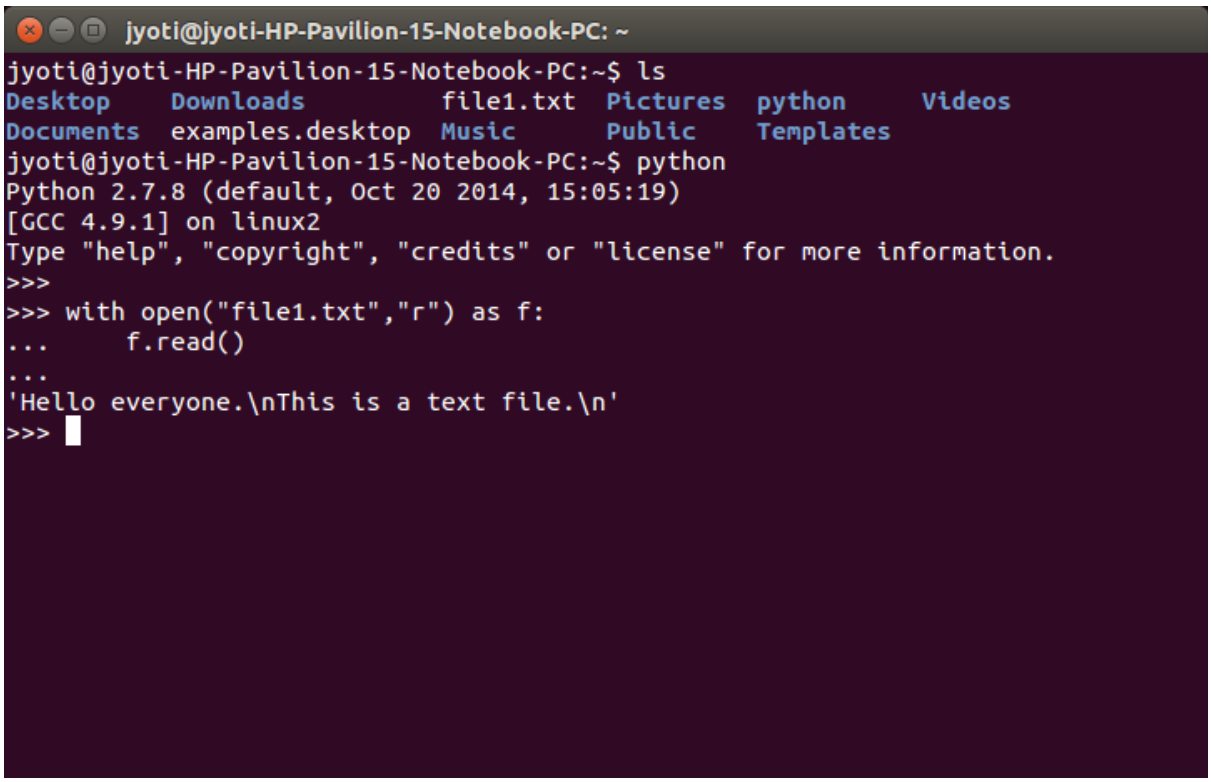


/* Ques27. Program to read from a file using read() function. */

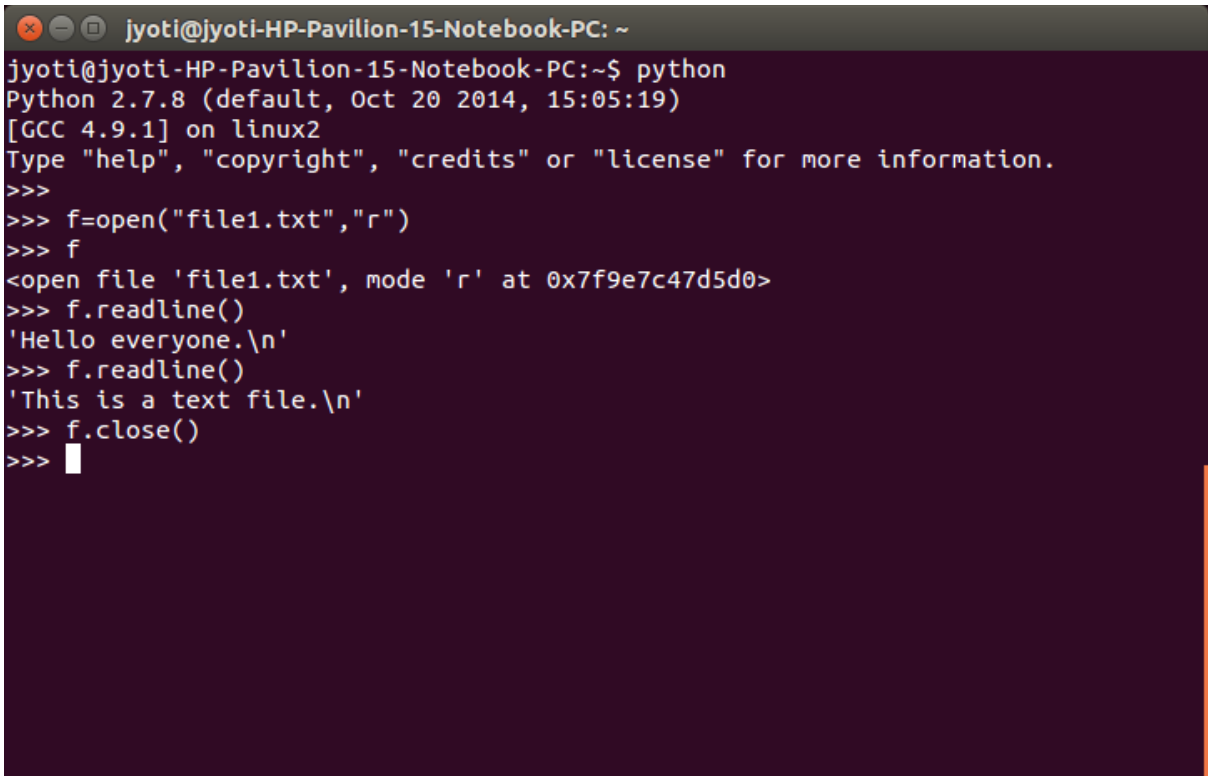




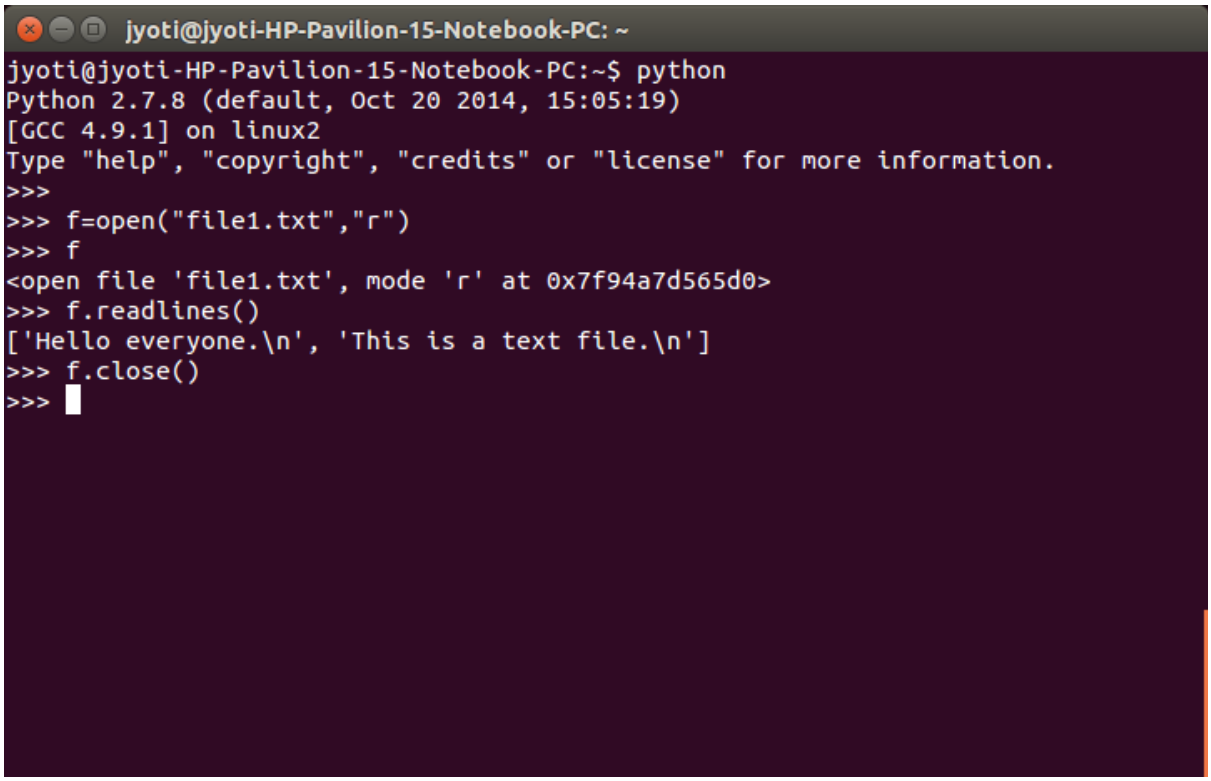
/* Ques28. Program to open a file using with. */



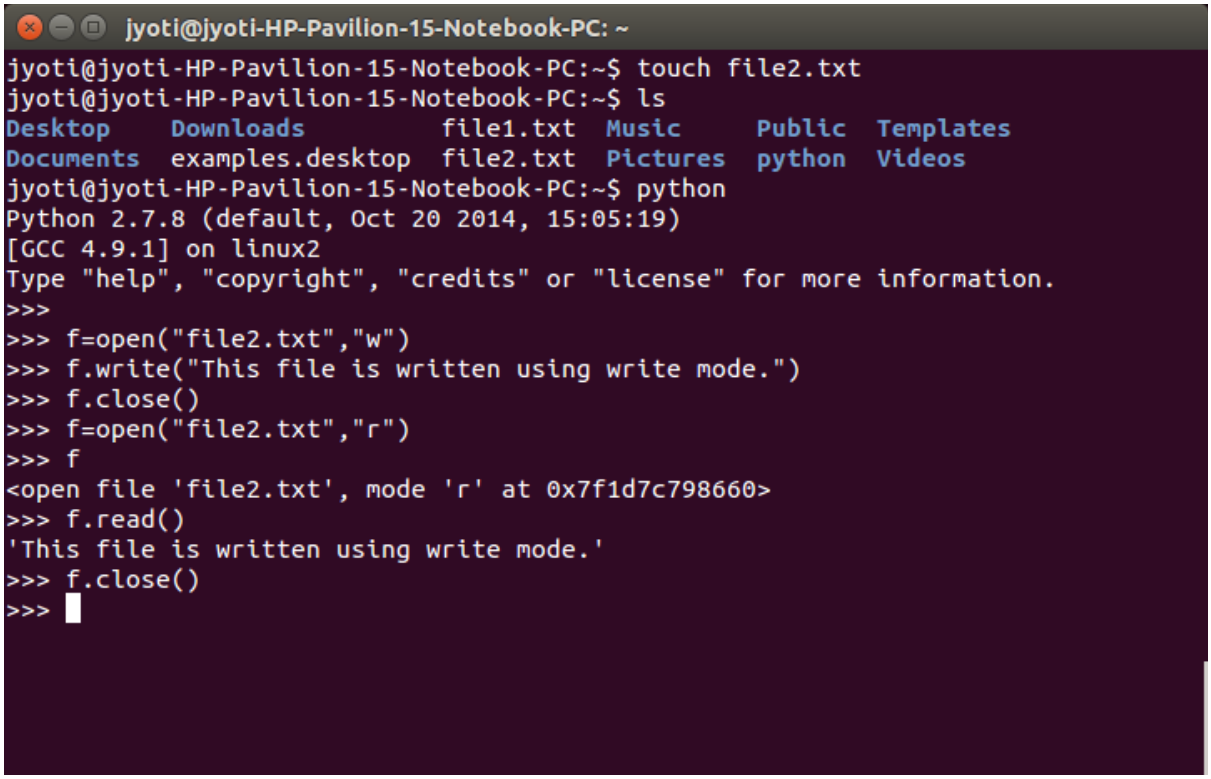
/* Ques29. Program to read a file using readline() function. */



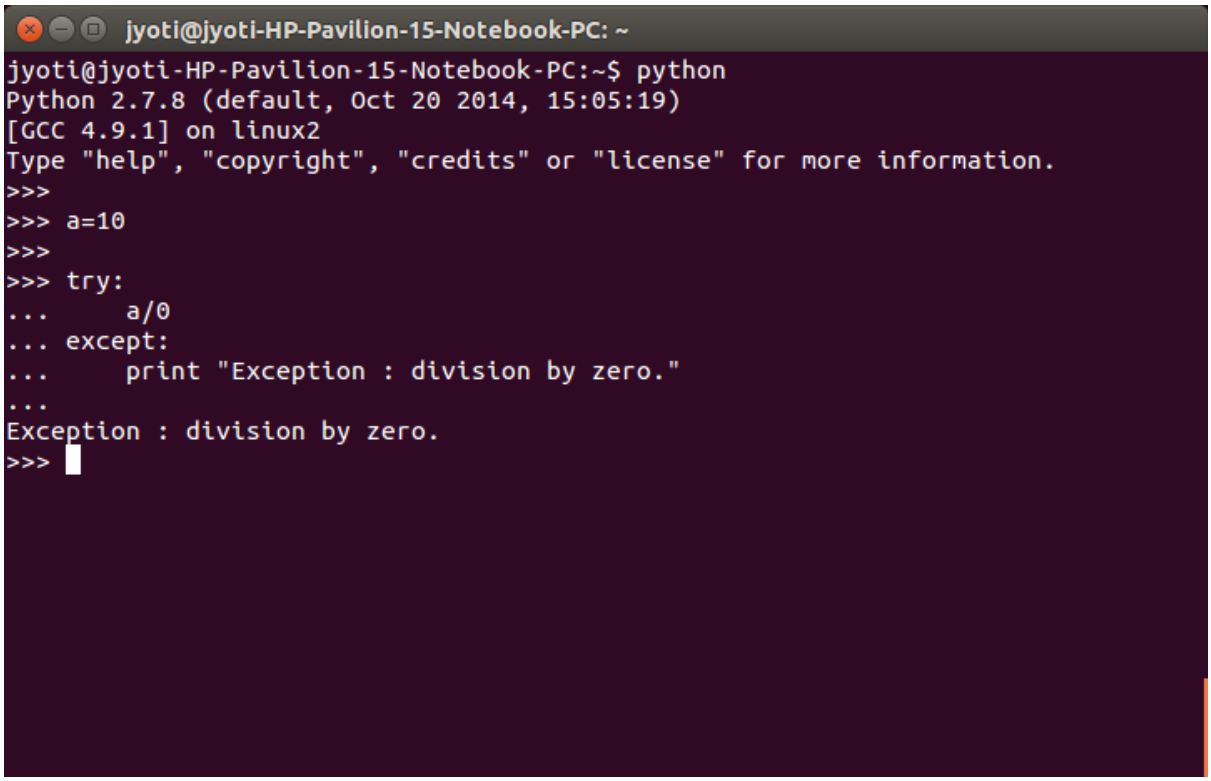
/*Ques30. Program to read a file using readlines() function. */



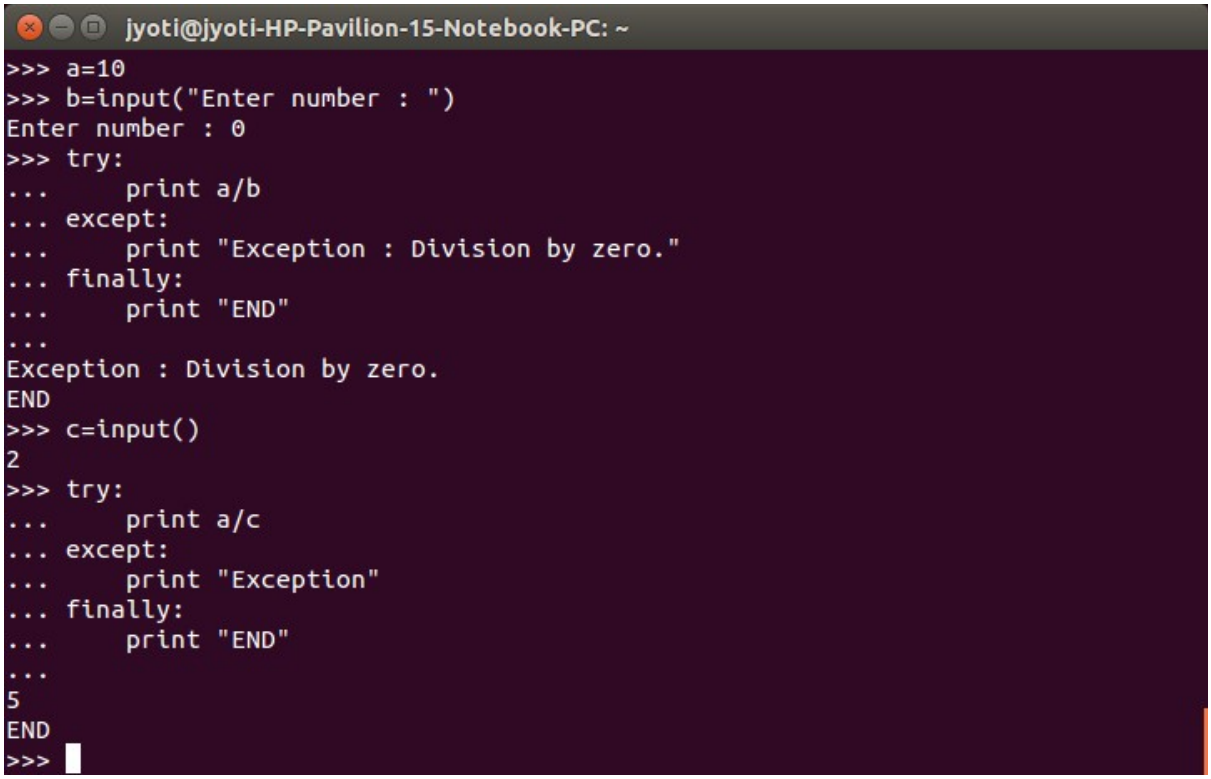
/* Ques31. Program to write in a file. */



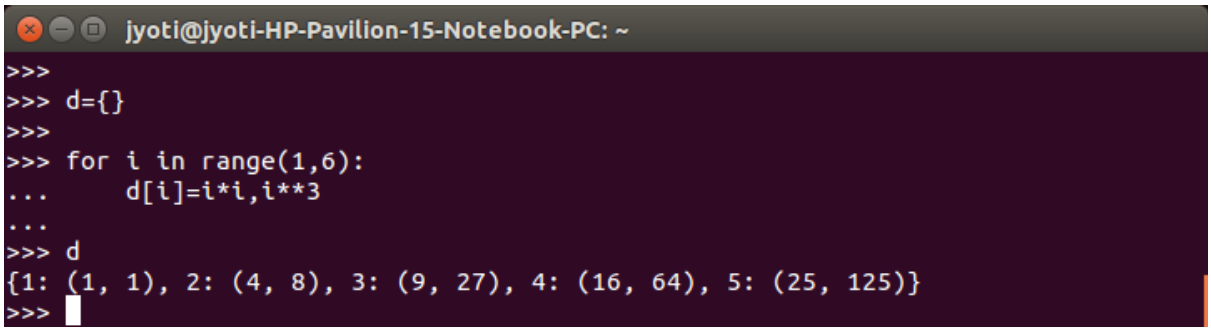
/* Ques32. Program to demonstrate exception handling. */



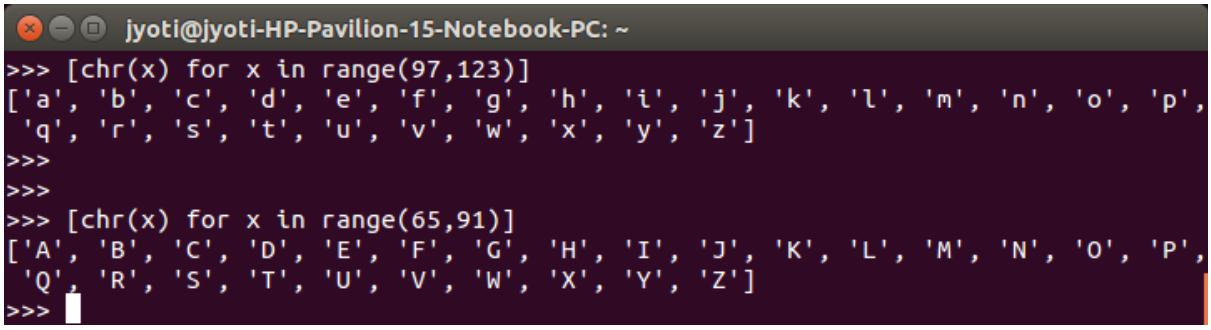
/* Ques33. Program to demonstrate the use of finally. */



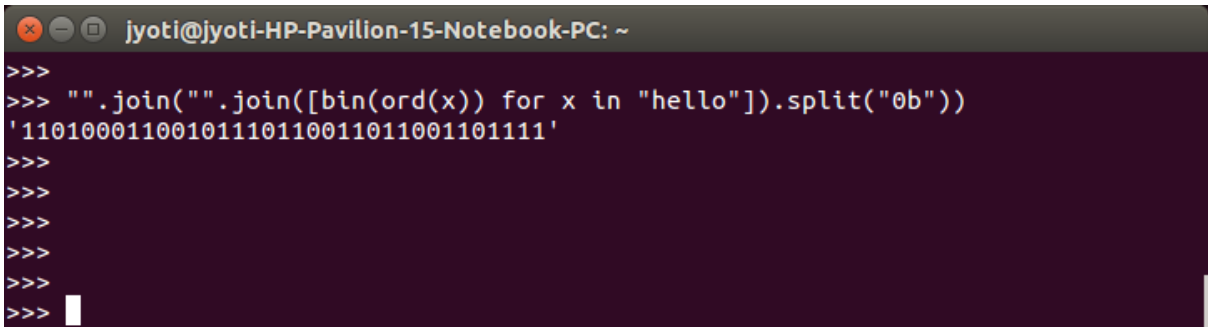
/* Ques34. Program to create a dictionary which include the values as square of the key. */



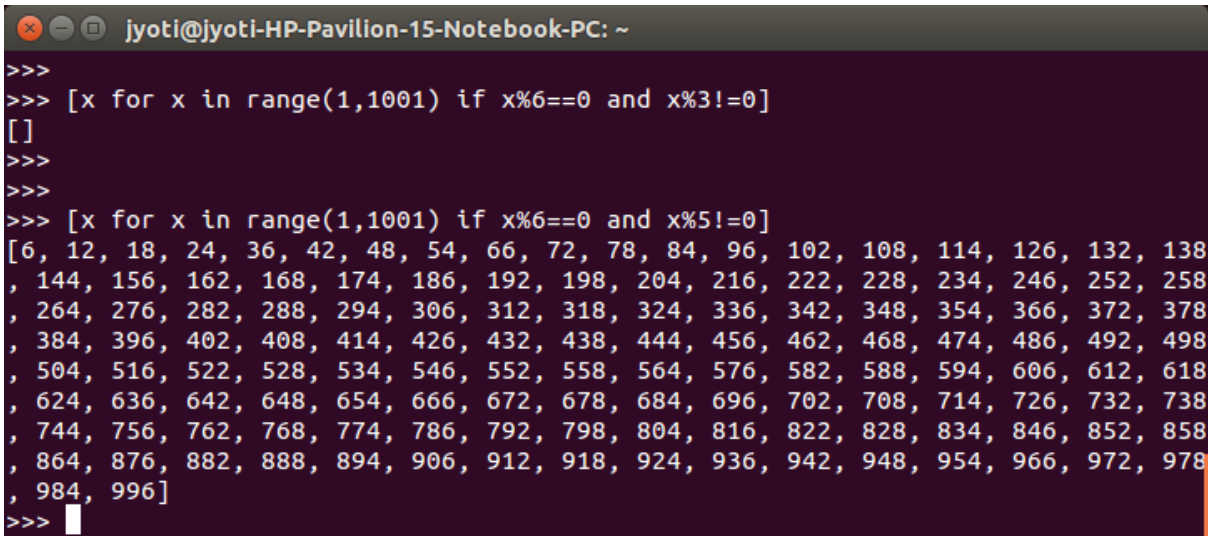
/* Ques35. Program to print a list of all alphabetical characters using list comprehension. */



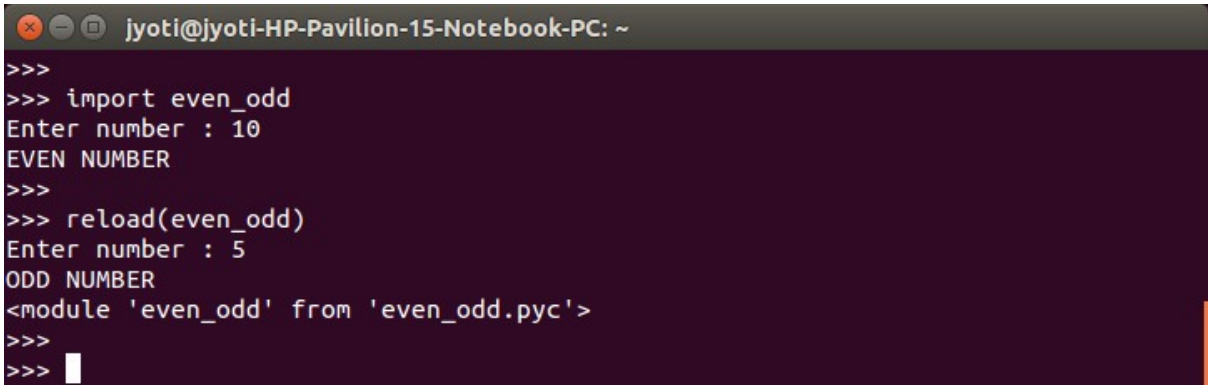
/* Ques36. Program to print a binary string of a character string. Code should by of one line. */

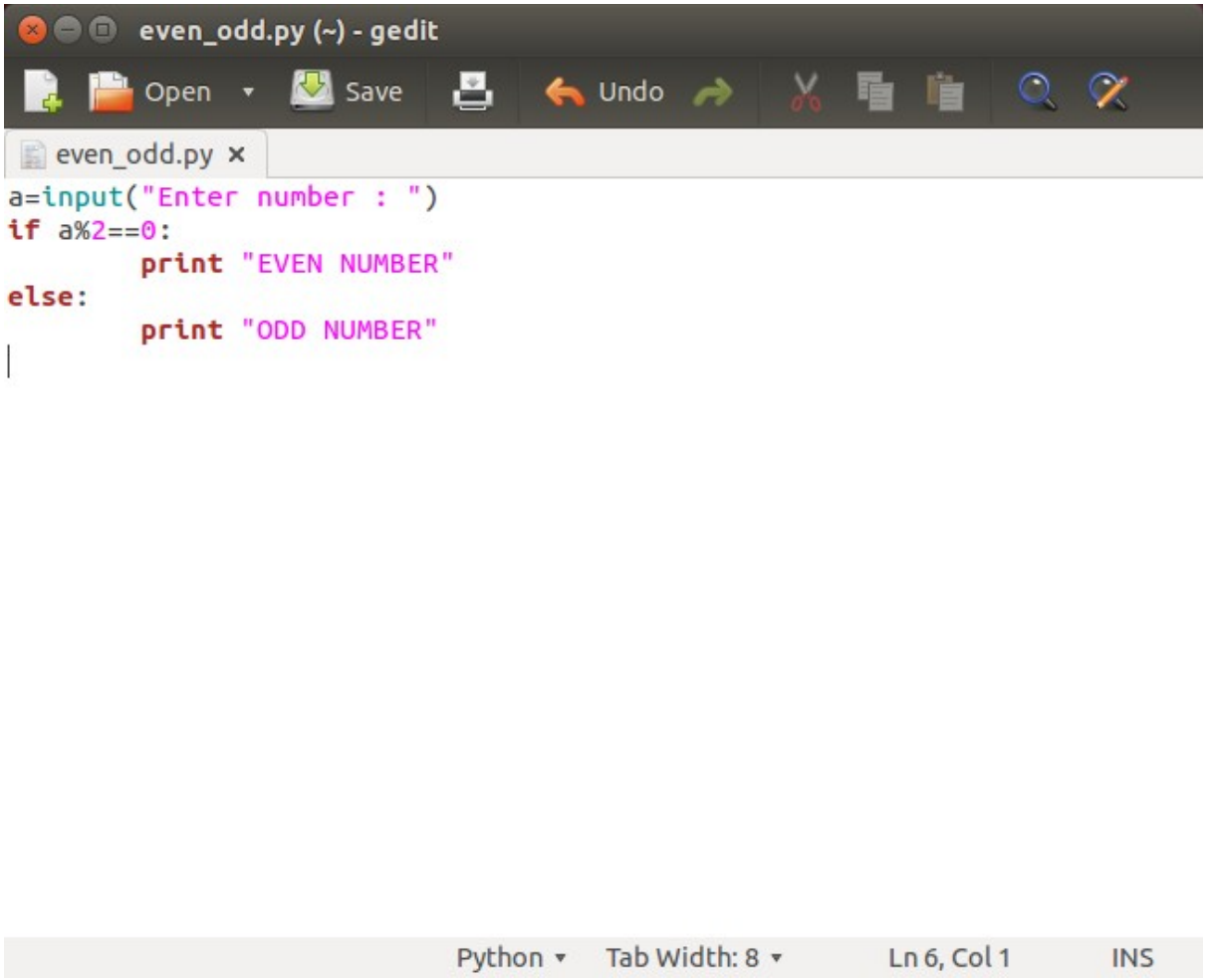


/* Ques37. Print a list of numbers based on certain condition of divisibility. */

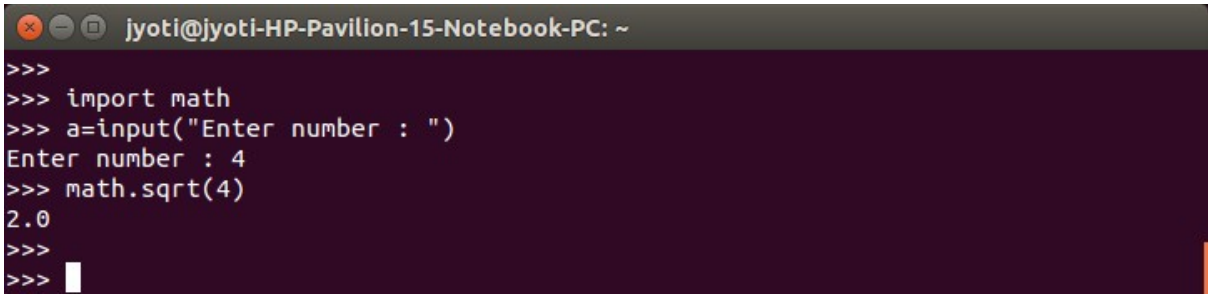


/* Ques38. Program to demonstrate how to import a file. */

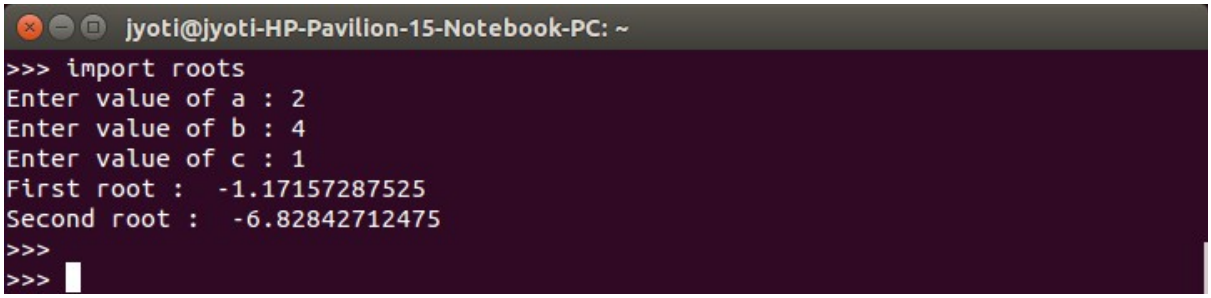




/* Ques39. Find square root of a number. */



/* Ques40. Program to solve a quadratic equation. */



roots.py (~) - gedit

Open Save Undo

roots.py

```
import math

a=input("Enter value of a : ")
b=input("Enter value of b : ")
c=input("Enter value of c : ")

d=b**2-4*a*c

if d<0:
        print "no real roots"
elif d==0:
        x=(-b+math.sqrt(d))/2*a
        print "one root : ",x
else:
        x1=(-b+math.sqrt(d))/2*a
        x2=(-b-math.sqrt(d))/2*a
        print "First root : ",x1
        print "Second root : ",x2
```

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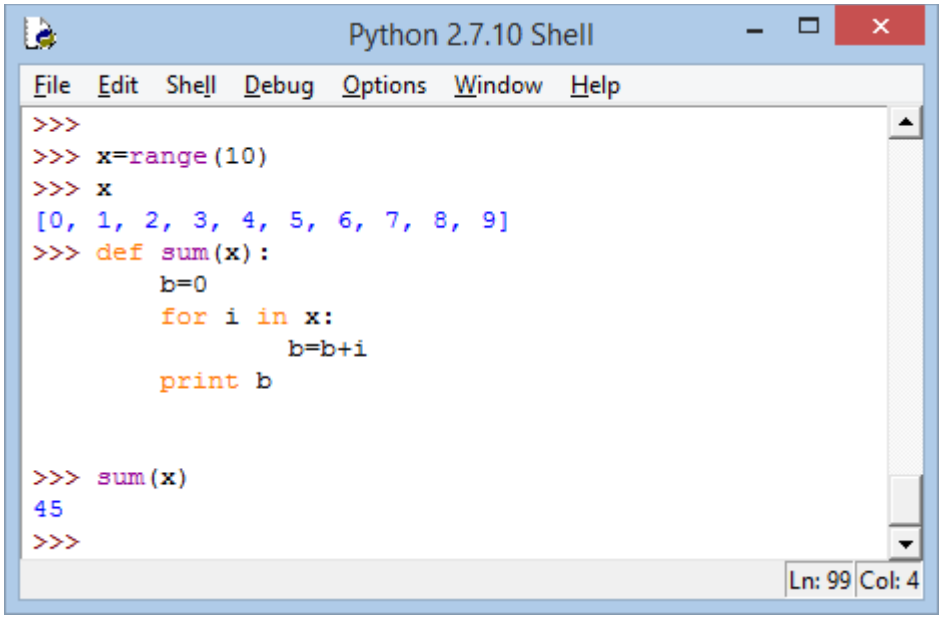
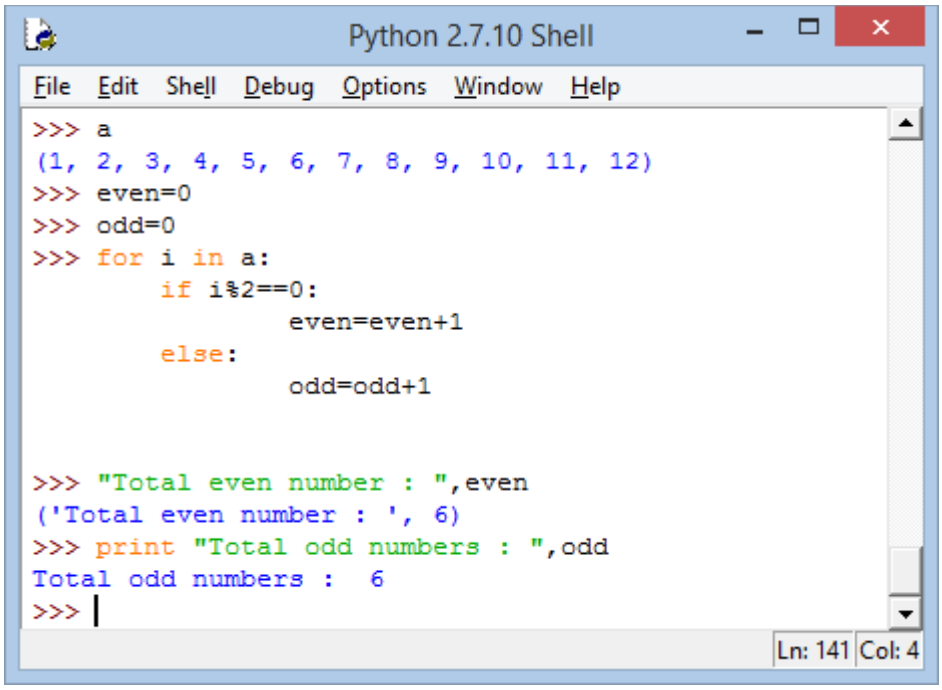
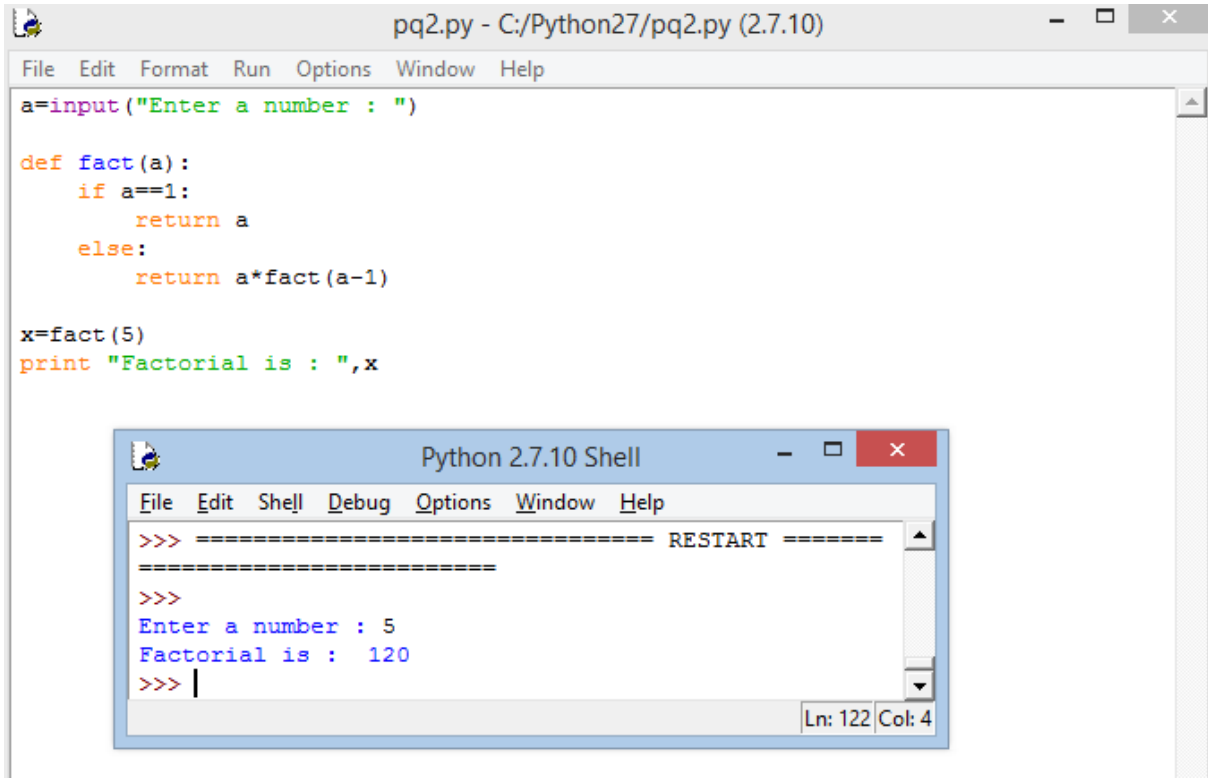
/* Ques41. Function which take a list and print the sum of all the elements of list. */



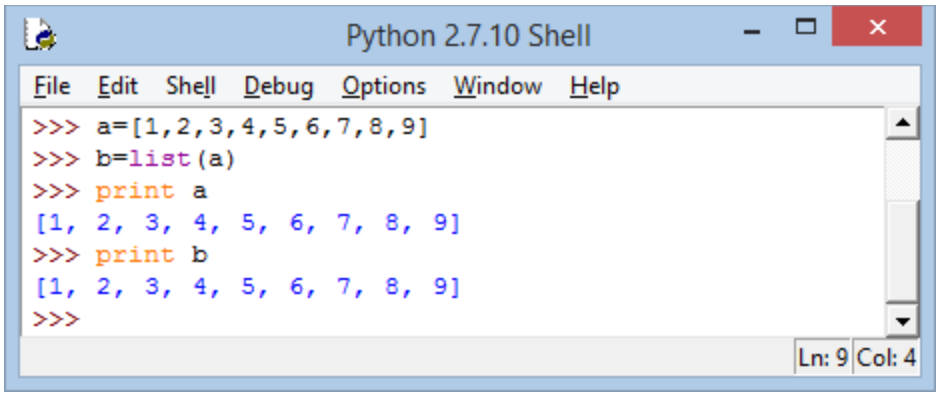
/* Ques42. Program to find total even and odd numbers in a tuple. */



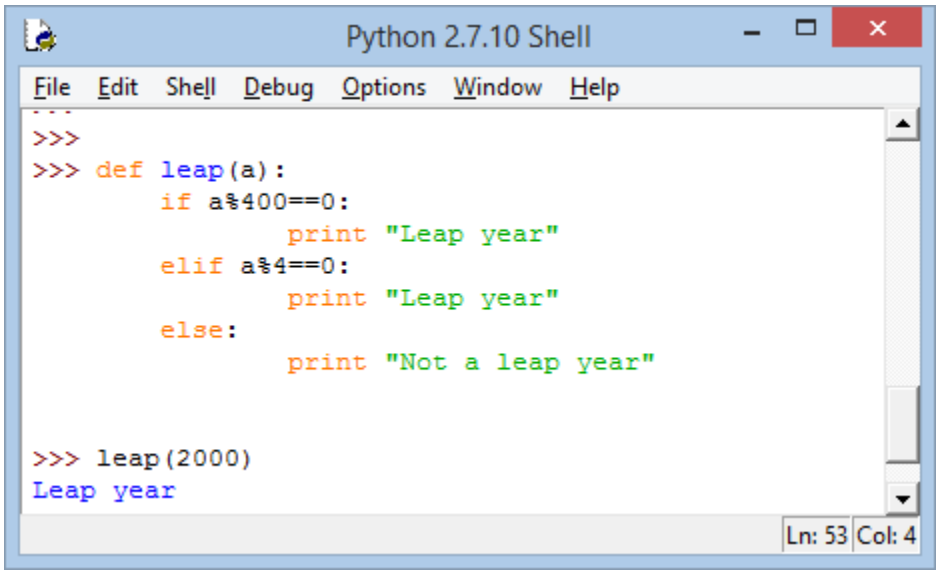
/* Ques43. Program to find factorial of a number usinf function. */



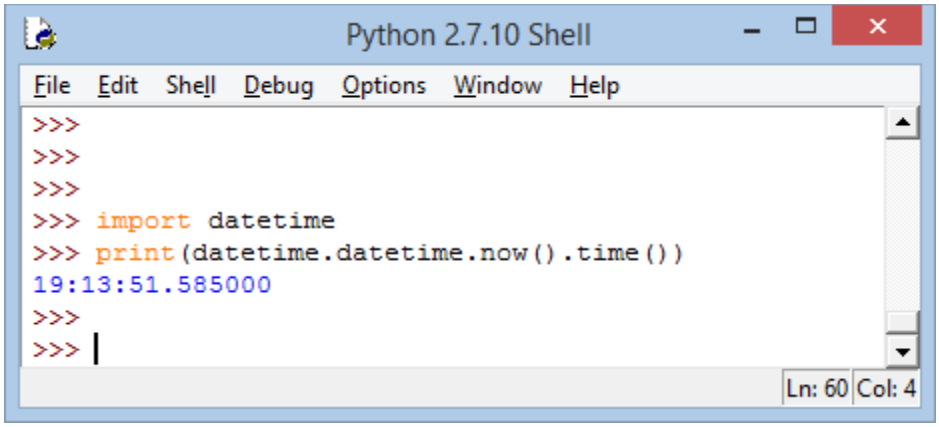
/* Ques44. Program to copy one lost into another list. */



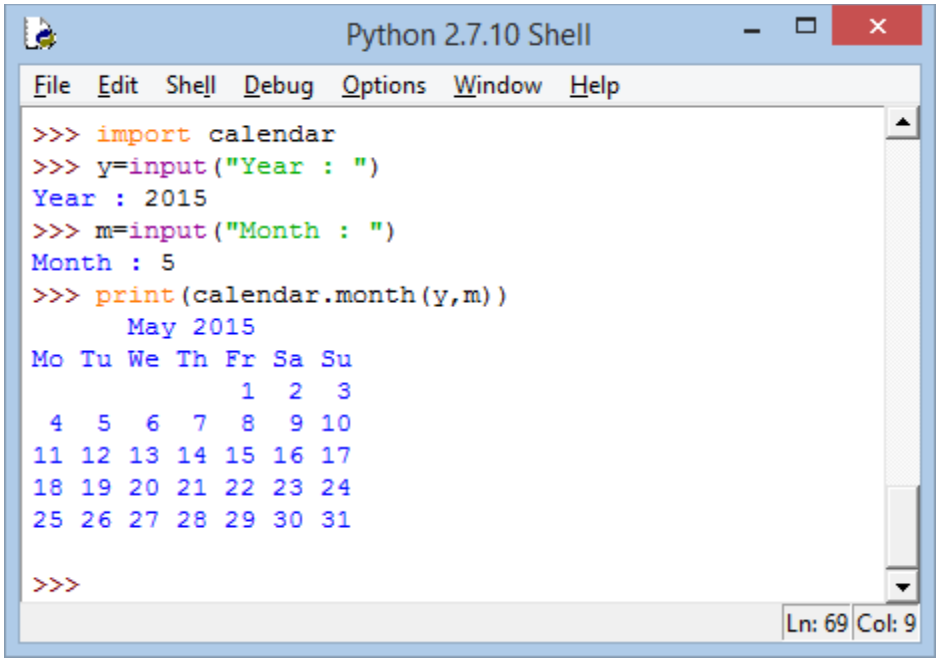
/* Ques45. Program to find leap year or not. */



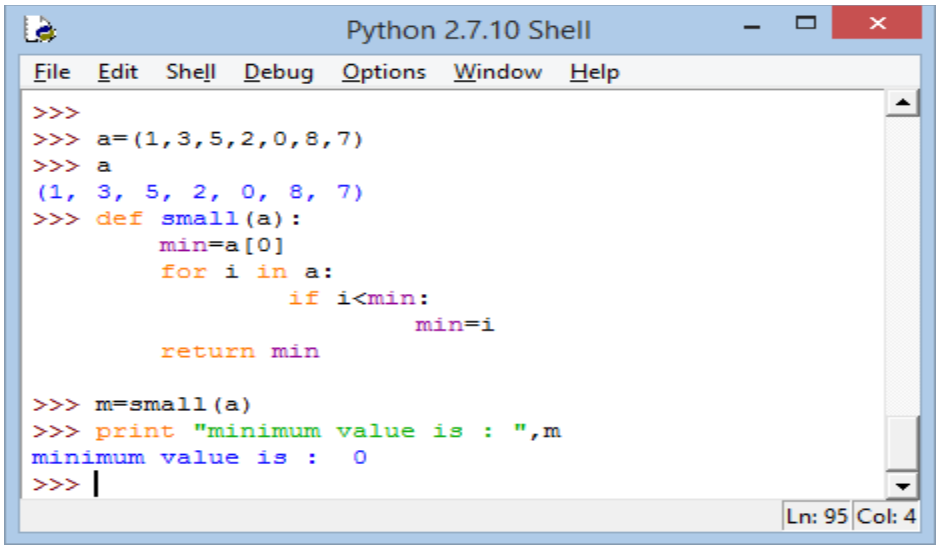
/* Ques46. Program to print current time. */



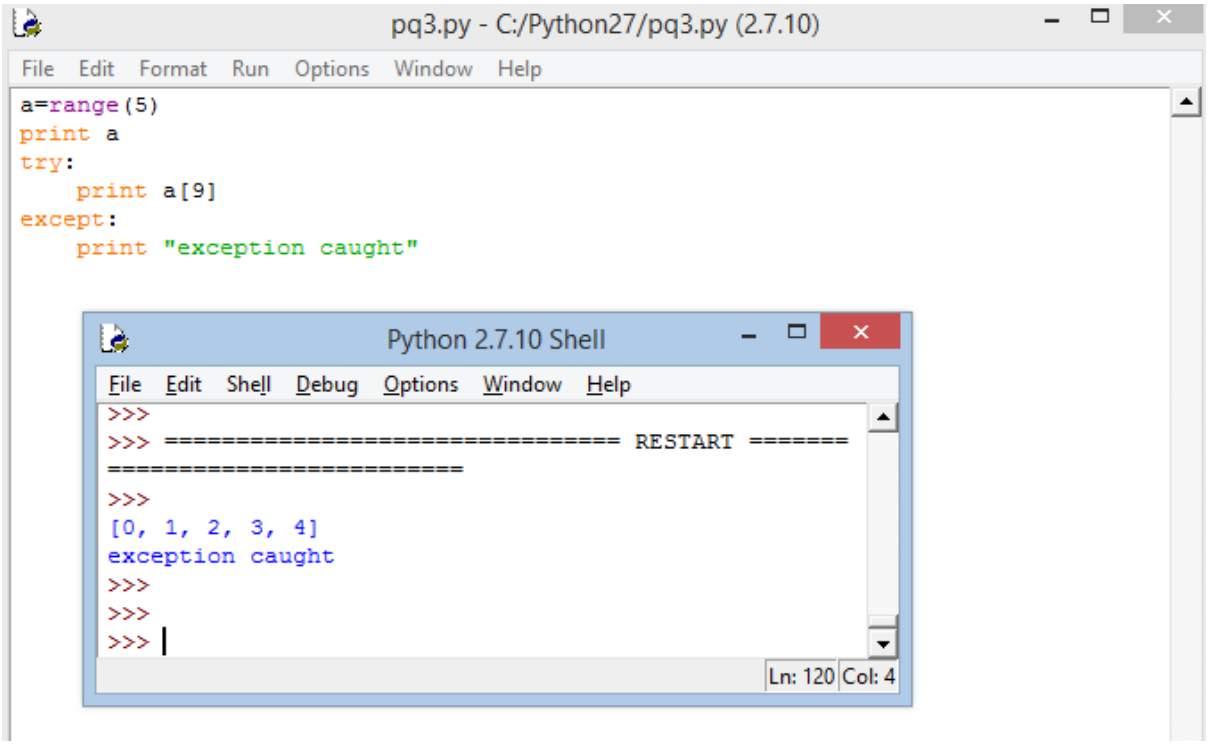
/* Ques47. Program to print calendar. */



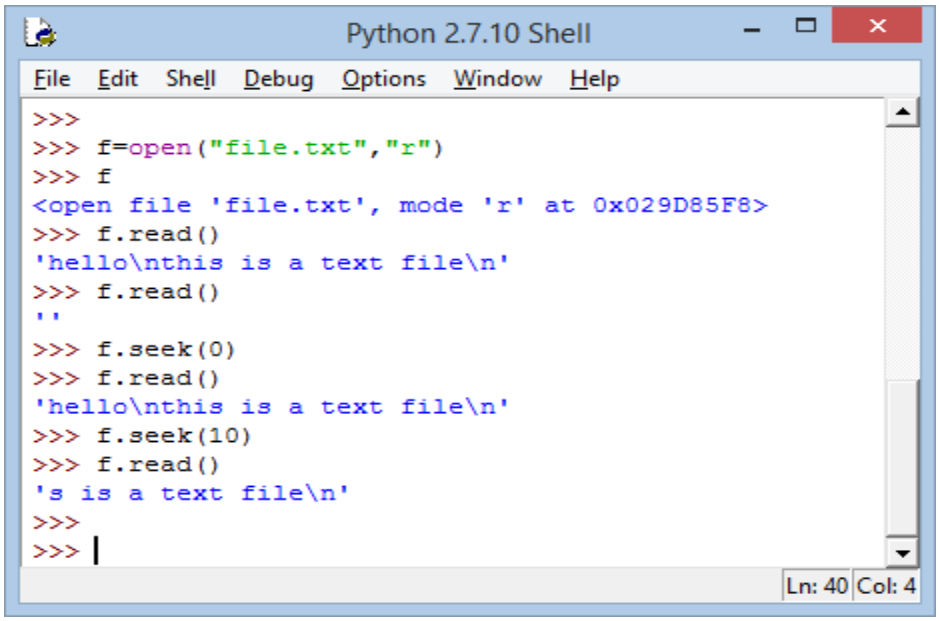
/* Ques48. Program to fine minimum number in a given range of number. */



/* Ques49. Program to demonstrate exception handling. */



/* Ques50. Program to read the file and show the use of seek() function. */



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