

In class Exercise – 1

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class id:48

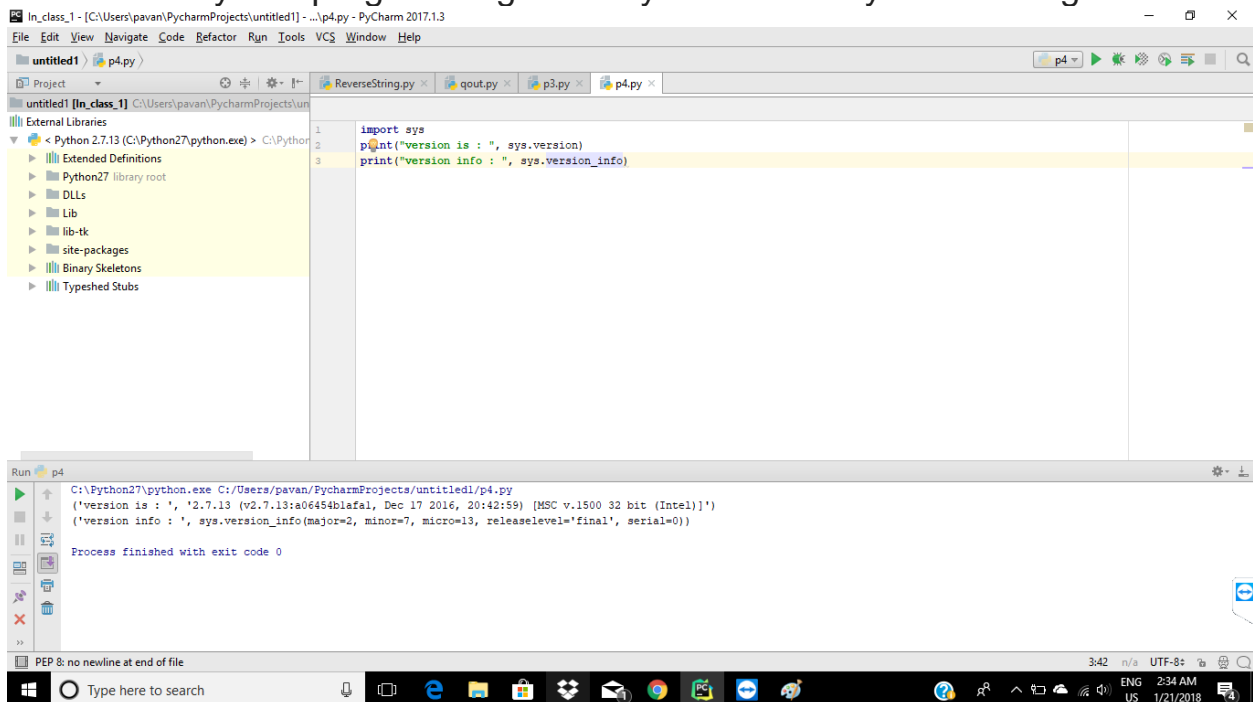
lcp group:2

1. A. State differences between Python 2 and Python 3 version.

Ans:

- 1) The print is a statement in python 2 whereas it is a function in python version 3.
- 2) There is a difference in the division operator in python 2 and 3. In python 3 "/" is used for exact division with decimal points whereas "//" is used for normal division. Whereas in python 2 both "/" and "//" are used for normal division.
- 3) In python 2 we have two types of range functions namely, range and xrange. Whereas in python 3 we only got range function.

- B. Write a Python program to get the Python version you are using.



The screenshot shows the PyCharm IDE interface. The main editor window displays a Python script named p4.py with the following code:

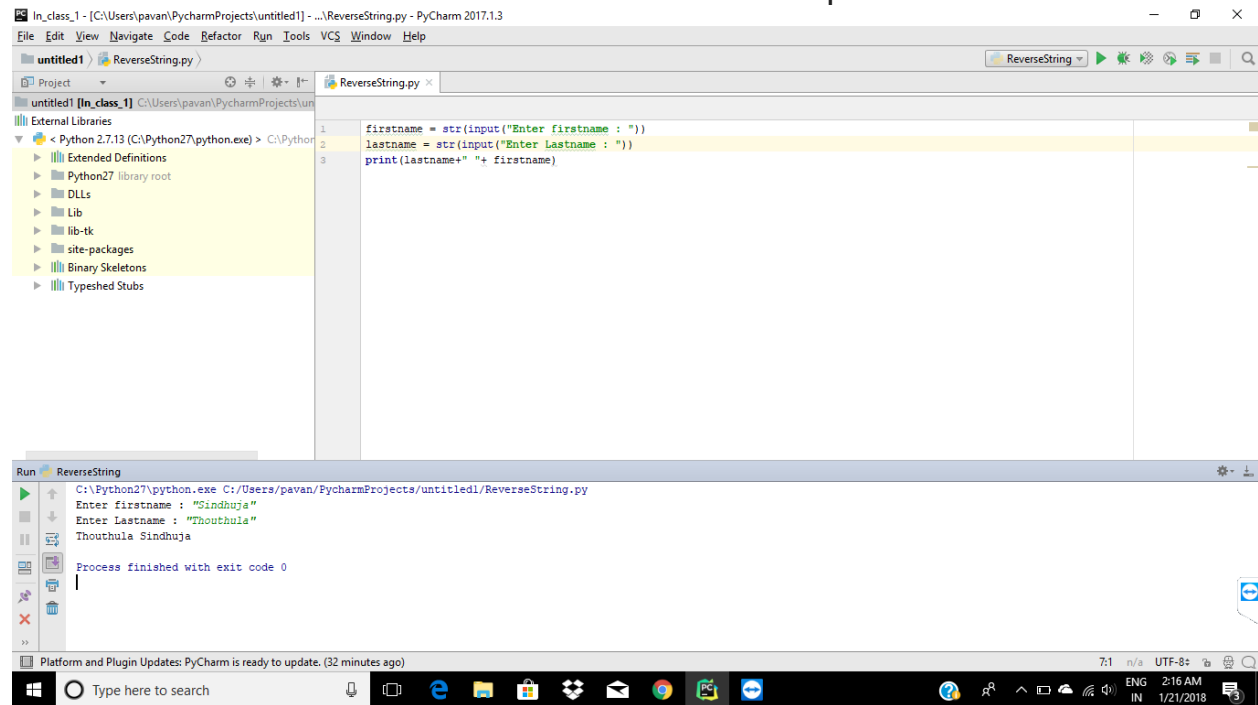
```
1 import sys
2 print("version is : ", sys.version)
3 print("version info : ", sys.version_info)
```

The left sidebar shows the Project view with the file p4.py selected. The bottom panel shows the Run output, indicating that the program was executed successfully using Python 2.7.13. The output is as follows:

```
C:\Python27\python.exe C:\Users\pavan\PycharmProjects\untitled1\p4.py
('version is : ', '2.7.13 (v2.7.13:a06454b1afaf, Dec 17 2016, 20:42:59) [MSC v.1500 32 bit (Intel)]')
('version info : ', sys.version_info(major=2, minor=7, micro=13, releaselevel='final', serial=0))
```

Process finished with exit code 0

2. Write a python program to a. Take the user first name and last name and then print it in reverse order.



The screenshot shows the PyCharm IDE with a file named `ReverseString.py`. The code in the editor is as follows:

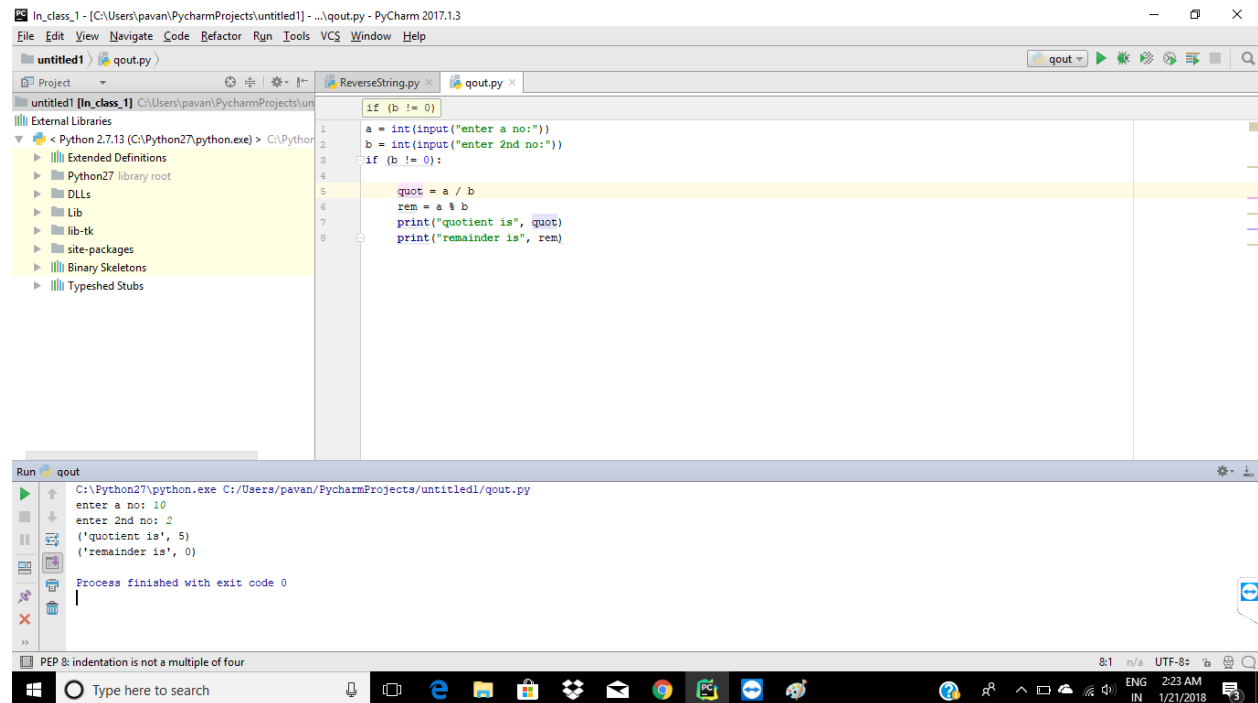
```
1  firstame = str(input("Enter firstame : "))
2  lastname = str(input("Enter Lastname : "))
3  print(lastname+" "+ firstame)
```

The Run window at the bottom shows the execution output:

```
Enter firstame : "Sindhuja"
Enter Lastname : "Thouthula"
Thouthula Sindhuja
```

Below the output, it states "Process finished with exit code 0". The Windows taskbar at the bottom shows the time as 2:16 AM on 1/21/2018.

b. To take two numbers from user and find their quotient and remainder. Print it.



The screenshot shows the PyCharm IDE with a file named `qout.py`. The code in the editor is as follows:

```
1  if (b != 0):
2      a = int(input("enter a no:"))
3      b = int(input("enter 2nd no:"))
4      if (b != 0):
5          quot = a / b
6          rem = a % b
7          print("quotient is", quot)
8          print("remainder is", rem)
```

The Run window at the bottom shows the execution output:

```
enter a no: 10
enter 2nd no: 2
('quotient is', 5)
('remainder is', 0)
```

Below the output, it states "Process finished with exit code 0". The Windows taskbar at the bottom shows the time as 2:23 AM on 1/21/2018.

3. Write a python program to This is a number guess exercise.

The screenshot shows the PyCharm IDE interface. The main editor window displays a Python script named `p3.py` with the following code:

```
1  else
2  import random
3  x = random.randint(0,9)
4  y = int(input("guess a no"))
5  if x == y:
6      print("correct guess")
7  else:
8      print("try again the correct one is",x)
```

The left sidebar shows the project structure for `untitled1`, including `External Libraries` and `Python 2.7.13` (C:\Python27\python.exe). The bottom panel shows the `Run` console output for `p3`:

```
C:\Python27\python.exe C:/Users/pavan/PycharmProjects/untitled1/p3.py
guess a no5
('try again the correct one is', 8)
Process finished with exit code 0
```

The Windows taskbar at the bottom shows the system clock as 6:1, 2:28 AM, 1/21/2018, and the language as ENG US.