

# Experiment No: 1

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

```
In [1]: import sys
        print('Python version')
        print(sys.version)

Python version
3.6.3 |Anaconda, Inc.| (default, Oct 15 2017, 07:29:16) [MSC v.1900 32 bit (Intel)]
```

**Write a Python program to accept a filename from the user and print the extension of that.**

Sample filename : abc.java

Output : java

```
In [2]: a = input('Enter Filename:')
        values = a.split('.')
        print(values[1])

Enter Filename:ch.xml
xml
```

**Write a Python program to calculate number of days between two dates.**

```
In [3]: import datetime
        d1 = datetime.date(2020, 5, 17)
        d2 = datetime.date(2020, 5, 19)
        n=d2-d1
        print(n.days)
```

2

**Write a program to print all prime numbers between range**

```
In [4]: value = input('Mention the range:').split(',')
print(value)
print('The Prime Nos between them are:')
for i in range(int(value[0]),int(value[1])):
    for j in range(2,i):
        if (i % j == 0):
            break
        else:
            print(i)
            break
```

```
Mention the range:10,20
['10', '20']
The Prime Nos between them are:
11
13
15
17
19
```

## Write a program to print given pattern

\* \* \* \* \*

```
In [24]: for i in range(1,7):
print('*'*i,end="")
print("  "*(6-i),end = "")
print(" *" * i,end="")
print()
```

```
*          *
**         **
***        ***
****       ****
*****     *****
*****     *****
*****     *****
```

## Write a program to generate random numbers

```
In [35]: import random
print(random.random())
```

```
<built-in method random of Random object at 0x01F7CFE0>
```

## Write a Python program which accepts a sequence of comma-separated numbers from user and generate a list and a tuple with those numbers.

```
In [36]: values = input("Input some comma seprated numbers : ")
list = values.split(",")
tuple = tuple(list)
print('List : ',list)
print('Tuple : ',tuple)
```

Input some comma seprated numbers : 1,2,3,4,5

List : ['1', '2', '3', '4', '5']

Tuple : ('1', '2', '3', '4', '5')