



What we did:

In this class we started learning about python language syntax and wrote our first python program.

How we did it:

We installed python3 on our system.

We learned python syntax by executing it in python shell (repl).

```
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rajeev@atlantis -> python3
Python 3.6.9 (default, Apr 18 2020, 01:56:04)
[GCC 8.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

We learnt to declare a variable.



```
python3 /home/rajeev

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rajeev@atlantis -> python3

Python 3.6.9 (default, Apr 18 2020, 01:56:04)

[GCC 8.4.0] on linux

Type "help", "copyright", "credits" or "license" for more information.

>>> myname = "Abhijeet"

>>> myage = 15

>>>

>>> print(myname)

Abhijeet

>>> print(myage)

15

>>> []
```

Use list in python

We learnt to take input



```
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rajeev@atlantis ~> python3

Python 3.6.9 (default, Apr 18 2020, 01:56:04)

[GCC 8.4.0] on linux

Type "help", "copyright", "credits" or "license" for more information.

>>> pocketMoney = input("Enter the pocket money you get: ")

Enter the pocket money you get: 200

>>> print(pocketMoney)

200

>>> []
```

We also learnt to use if..else

```
python3 /home/rajeev
rajeev@atlantis ~> python3
Python 3.6.9 (default, Apr 18 2020, 01:56:04)
[GCC 8.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> pocketMoney = int(input("Enter the pocket money you get every month: "))
Enter the pocket money you get every month: 400
>>>
>>> if (pocketMoney>500):
      print("You are a rich kid")
... elif (pocketMoney>100):
      print("You have a good life")
... else:
      print("I know what you feel!")
. . .
You have a good life
>>> |
```

We also learnt the usage of for loop and while loop



```
>>> count = 5
>>> while (count>=0):
...    print(count)
...    count = count - 1
...
5
4
3
2
1
0
>>>
```

We learnt to write python code in editor and run it on terminal.



```
PocketMoney.py X

Documents > Test > ♠ pocketMoney.py

1 pocketMoney = int(input("Enter the pocket money you get every month: "))
2 if (pocketMoney>500):
3 | print("You are a rich kid")
4 elif (pocketMoney>100):
5 | print("You have a good life")
6 else:
7 | print("I know what you feel!")

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rajeev@atlantis
rajeev@atlantis

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```

Using what we learnt earlier we wrote step by step python program to count a number of words in a string.

Used input to take a string from user

```
countingWords.py

introString=input("Enter your introduction:")

print(introString)

3
```

2. Declared characterCount and wordCount variables



```
countingWords.py

introString=input("Enter your introduction:")

characterCount=0
wordCount=1

4
```

3. Used for loop

4. Wrote a if condition to count word

```
countingWords.py

introString=input("Enter string:")

characterCount=0

wordCount=1

for i in introString:

characterCount=characterCount+1

if(i==' '):

wordCount=wordCount+1

8
```

5. Then we printed the word and character count



```
countingWords.py
introString=input("Enter string:")
characterCount=0
wordCount=1
for i in introString:
characterCount=characterCount+1
if(i==' '):
wordCount=wordCount+1

print("Number of word in the string:")
print(wordCount)
print("Number of character in the string:")
print(characterCount)
```

Then we run and test then code

```
rajeev@atlantis ~/D/gettingFilesList> python3 countingWords.py
Enter string:My name is abhijeet
Number of word in the string:
4
Number of character in the string:
19
rajeev@atlantis ~/D/gettingFilesList>
```

What's next?

In the next class, we will learn to use user defined functions.