

Python Basic Programming in Jupyter Notebook

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01_My first line of code

```
In [1]: print ("welcome to python basic programming")
```

welcome to python basic programming

02_Operators

```
In [2]: print(2+3)
print(3-2)
print(2*3)
print(2/3)
print(2//3)
print(9%2)
```

#PEMDAS

5
1
6
0.6666666666666666
0
1

03_Strings

```
In [3]: print('Hi, this is Arsalan_Zeb')
print('test for single quote')
print("test for double quote")
print(''''test for triple quote''')

print("what's up")
```

Hi, this is Arsalan_Zeb
test for single quote
test for double quote
test for triple quote
what's up

04_Comments_in_Python

for comment CTRL+/ is used\ print("We are learning python with sir Ammar")

05_Varibales

```
In [4]: #variables
x=10
print(x)

y="Arsal"
print(y)

z=x+10
print(z)
```

```
10
Arsal
20
```

06_Input_Varibales

```
In [5]: # fruit_basket=input("what is your favoruite fruit?")
# print(fruit_basket)

#2nd stage function
name=input("what is your name? ")
#greeting="Hello"
print("Hello",name)
```

```
what is your name? Arsal
Hello Arsal
```

07_Conditional_Logic

logical operator are either true or false\ equal to ==\ less than <\ greater than >\ less or equal <=\ not equal !=

```
In [6]: #Is 4 equal to 4
print(4==4)
print(4>3)
print (4<3)
print(4!=3)
```

```
True
True
False
True
```

08_If_Else_Statement

```
In [7]: age=23
required_Age_in_masters=22

if age>required_Age_in_masters:
    print("Arsal can go for masters")

elif age==required_Age_in_masters:
    print("good to go")
```

```

else:
    print("Arsal can't go for masters")

```

Arsal can go for masters

09_Functions

In [8]:

```

#from typing import Text

# def afternoon():
#     text= "what time it is?"
#     print(text)

# afternoon()

def school_calculator(age):
    if age==5:
        print("hammad can join the school")
    elif age>5:
        print("hammad should go to high school")
    else:
        print("hammad is still baby")

school_calculator(10)

```

hammad should go to high school

10_Loops

In [9]:

```

##While Loop example##

x=0
while (x<10):
    print(x)
    x=x+1

##For Loop example##
# for y in range(4,10):
#     print (y)

arrays=["a","b","c","d"]

for i in arrays:
    # if (i=="c"): break # stop at that point
    if (i=="c"): continue #skip that point

    print(i)

```

0
1
2
3
4
5

6
7
8
9
a
b
d

11_Libraries

```
In [10]: import math
print("the value of pi is " , math.pi)

#import statistics

# numpy, pandas are few examples of libraries in python etc
```

the value of pi is 3.141592653589793

12_Troubleshooting

three types of troubleshooting\ syntax error\ run time error\ symmetric error

In []: