Perticipant

```
Title = "Mr"

Name = "Muhammad Tanzeel-Ur-Rehman"

Email = "m.tanzeelrehmen@gmail.com"

whatsapp = "+923328451897"
```

Pyhon Ka chilla with baba Aammar

How to use Jupyter Notebook

Basics of Python

01- My first program

```
print(2+3)
print('Hello World')
print('We are learning Python with Aammar')
```

02_operators

03_strings

```
In []:
    print('Hello World')
    print('We are learning Python with Aammar')
    print('Test for Single quotes')
    print("Test for double quotes")
    print(''' Test for triple quotes''')
    # " "
    # ""
# ""
```

```
In [ ]: # print('what's Up')
    print(" what's Up ?")
    print(" what's Up Tanzeel & Sami ! ")
```

04_comments

```
In []: # print("How are you ?")
    print("we are Learning with Aammar") #print sting
    print(2+6) # print oprator functions wit numbers
In []: #press c\to comment out ctrl + /
```

```
05_variables
In [ ]:
         # Variables Objects containing specific values
         x = 5 # numeric or integer variable
         print(x)
In [ ]:
         y = "We are learning Python with Aammar" # String variable
         print(y)
In [ ]:
         x = x + 10 \# or x = 15
         print(x)
In [ ]:
         # types/class of variables
         type(x)
         print(type(x))
         print(type(y))
         # prnt type_class
In [ ]:
         # Rules to assign a ariable:
         # 1- The variable should contain, numbers or underscores
         # 2- Do not start wit number -> 2student
         # 3- Space are not allowed
         # 4- Do not use keywords like used in functions (break, mean, media ,test ect)
         # 5- Short and descriptive
         # 6- Case senstivity (Lowyercase, Upercase latters, lowyercase latter should be used )
In [ ]:
         fruit_basket = "Mangos"
         print(fruit basket)
In [ ]:
         fruit_basket = "Mangos" , "Oranges"
```

print(fruit_basket)

```
In [ ]:
         fruit basket = "Mangos Oranges"
         print(fruit_basket)
In [ ]:
         fruit_basket = 8
         print(fruit basket)
In [ ]:
         fruit basket = 8
         print(type(fruit_basket))
In [ ]:
         fruit_basket = 8
         fruit basket = 15
         print(type(fruit_basket))
         print(fruit_basket)
In [ ]:
         fruit basket = 8
         fruit basket = "Mangos"
         print(type(fruit_basket))
         print(fruit_basket)
In [ ]:
         fruit basket = 8
         fruit_basket = "Mangos"
         del fruit basket
         print(type(fruit basket))
         print(fruit basket)
```

06_inpup_variables

```
In [ ]:
         fruit basket = "Mangos"
         print(fruit basket)
In [ ]:
         # input function
         fruit basket = input("What is your favourite fruit ?")
         print(fruit basket)
In [ ]:
         # input function of 2nd stage
         name = input(" What is your name ?")
         greetings = "Hello"
         print(greetings, name)
In [ ]:
         # anoyher way of 2nd stage function
         name = input(" What is your name ?")
         print("Hello", name)
In [ ]:
         # 3rd stage input function
```

```
name = input(" What is your name ? ")
age = input(" How old are you ? ")
greetings = "Hello"
print("Hello", name, ", you are still young")
In []: #input_Aammar_you are still young
```

07_conditional_logics

```
In [ ]:
         # logical Oprators are either "True or False" or "yes or no" or "1 or 0"
         # Equal to ==
         # not equal to !=
         # less then <
         # greater then >
         # less then and equal to <=
         # greater then and equal to >=
In [ ]:
         #is 4 equal to 4
         print(4 == 4)
In [ ]:
         #is 4 not equal to 4
         print(4 != 4)
In [ ]:
         print(4>3)
In [ ]:
         print(3>6)
In [ ]:
         print(3 <= 5)
In [ ]:
         print(5>=4)
In [ ]:
         # application of logical Oprators
         hammad age = 4
         age at school = 5
         print(hammad_age == age_at_school)
In [ ]:
         #input Function and logical oprator
         age at school = 5
         hammad_age = input("How old is Hammad ?")
         hammad age = int(hammad age)
         print(type(hammad_age))
         print(hammad age == age at school)
```

08_type_conversion

```
In [ ]:
         x = 10
                  #int
         y = 10.2 # flot
         z = "Hello" #string
         x = x*y
         #implicit type conversion
         print(x, " Type of x is: ", type(x))
In [ ]:
         #explicit type conversion
         age = input("What is your age? ")
         # age = int(age)
         print(age, type(float(age))) # int , float, str
In [ ]:
         name = input("What is your name? ")
         # age = int(age)
         print(name, type(str(name)))
In [ ]:
         #type conversion
```

09_if_else&elif

```
In []:
    hammad_age = 15
    required_age_at_school = 5
    # hammad_age = input("How old is Hammad ?")
    # hammad_age = int(hammad_age)
    # print(type(hammad_age))

# Question: can hammad go to school?
    if hammad_age == required_age_at_school:
        print("Hammad can join school")
    elif hammad_age > required_age_at_school:
        print("Hammad should join higher secondary school")
    elif hammad_age == 2:
        print("you should take care of Hammad, he is still a baby")
    else:
        print("Hammad can not go school")
```

10_functions

```
print("we are larning wity Aammar")
             print("we are larning wity Aammar")
         print codanics()
In [ ]:
         # 2
         def print codanics():
             text = "we are larning wity Aammar in codanics youtube channel"
             print(text)
             print(text)
             print(text)
             print(text)
             print(text)
             print(text)
         print codanics()
In [ ]:
         # 3
         def print_codanics(text):
             print(text)
             print(text)
             print(text)
         print_codanics("we are larning wity Aammar in codanics youtube channel")
In [ ]:
         # defining a function with if, elif and else
         def school calculator(age, text):
             if age == 5:
                 print(text," can join school")
             elif age > 5:
                 print(text," should join higher secondary school")
             else:
                 print(text," can not go school")
         school calculator(5, "Hammad")
In [ ]:
         #defining a function of future
         def future_age(age):
             new_age = age+20
             return new age
             print(new_age)
         future_predicted_age = future_age(5)
         print(future predicted age)
```

11_loops

```
In [ ]: # While and For Loops
```

```
Basicpython_Complete_notebook
         # while loops
In [ ]:
         x =0
         while (x \le 5):
             print(x)
             x+=1
In [ ]:
         # for Loop
         for x in range(0,5):
             print(x)
In [ ]:
         # array
         days = ["Mon", "Tue", "wed", "Thu", "Fri", "Sat", "Sun"]
         for d in days:
             if d == "Fri": continue
             print(d)
        12_import_libraries
In [ ]:
         #import
         # if you want to print the value of pi
In [ ]:
         import math
         print("The value of pi is : ", math.pi)
In [ ]:
         import statistics
         x = [150, 250, 350, 450]
         print(statistics.mean(x))
In [ ]:
         # numpy, pandas, seaborn, matplotlib,
        13_trouble_shooting
In [ ]:
         print("we are larning wity Aammar) #syntex error
In [ ]:
         print(25/0) # runtime error
```

troble shooting is essy

print("Hello name") #symentics error

name = "Tanzeel"

In []: