# Learn python with the help of Baba Ammar Videos.

Use of Jupyter Notebook.

# Basics of Python with Jupyter Notebook.

1- My First python program using jupyter notebook.

```
In [1]:
    print(5+8)
    print("Hello Pakistan")
    print("Quaid-i-Azam University Islamabad")

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    Hello Pakistan
    Quaid-i-Azam University Islamabad
```

#### 2\_Operators

#### 3\_strings

#### **4\_comments**

```
print("What are you doing?")
    # print("I am learning python fourth chapter")
    print(8+4)
```

What are you doing?

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#### 5\_variables

```
In [5]:
         #variables: objects of differnet kinds
         x=2
         print(x)
         y="We are learning fifth chapter of python"
         print(y)
         x=x+6
         print(x)
         #type/class of variables:
         type(x)
         print(type(x))
         print(type(y))
         fruit basket=11
         fruit_basket="Apples"
         #del fruit basket
         print(type(fruit_basket))
         print(fruit basket)
        We are learning fifth chapter of python
        <class 'int'>
        <class 'str'>
        <class 'str'>
        Apples
```

# 6\_input\_variables

```
# print(fruit_basket)
#input of second stage function

# name=input("what is your name? ")
# greetings="Welcome"
# print(greetings,name)

#another way of 2nd stage function

# name=input("what is your name? ")
# print("Welcome",name)

#3rd stage of input function

name=input("What is your name? ")
age=input ("How old you are? ")
greetings="Welcome"
print(greetings,name,",You are still looking handsome.")
```

What is your name? Yasir How old you are? 10 Welcome Yasir ,You are still looking handsome.

# **7 Conditional Operators**

```
In [7]:
         # print(4==4)
         # print(4!=4)
         # print(4>3)
         # print(3>5)
         # print(5>=1)
         # print(4<=5)
         #application of age operators
         # nasir_age=15
         # age_at_college=17
         # print(nasir_age==age_at_college)
         #input operators and logicals
         age_at_college=17
         nasir_age=input("How old are you? ")
         nasir_age=int(nasir_age)
         print(type(nasir_age))
         print(nasir_age==age_at_college)
        How old are you? 10
```

<class 'int'> False

#### 8\_type\_Conversion

```
In [8]:
         \# x=7
         # y=5.2
         # z="Welcome"
         # print(type(x))
         # print(type(y))
         # print(type(z))
         # #Implicit type of conversion
         \# x=x*y
         # print(x,type(x))
         #explicit type of conversion
         # age=input("What is your age? ")
         # # age=int(age)
         # print(age,type(int(age)))
         #name
         name=input("What is your name? ")
         # age=int(age)
         print(name,type(str(name)))
```

What is your name? Yasir Yasir <class 'str'>

#### 9 if elif else

```
In [9]:
         nasir_age=17
         required_age_at_college=15
```

```
#question: can nasir go to college?

if nasir_age==required_age_at_college:
        print("Congratulations! Nasir join the College.")

elif nasir_age > required_age_at_college:
        print("Nasir should join the college.")

elif nasir_age<=13:
    print("you should take care of nasir he is still a school student.")

else:
    print("Nasir can not join to college")</pre>
```

Nasir should join the college.

#### 10 functions

```
In [10]:
          #definig a function with if, elif and else statements
          # def university_calculator(age):
                if age==18:
          #
                    print("nasir can join the university")
                elif age > 18:
          #
                    print("nasir should go to university")
          #
          #
                else:
                    print("nasir is still in university")
          # university calculator(20)
          #Defining a function of future
          def future age(age):
              new age=age+20
              return new_age
              print(new_age)
          future_predicted_age=future_age(12)
          print(future predicted age)
```

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# 11\_Loops

```
if(d=="Fri"):continue
print(d)

Mon
Tue
Wed
Thu
Sat
Sun
```

# 12\_Import\_Libraries

```
In [12]: #if you want to print value of pi.

# import math
# print("the value of pi is", math.pi)

import statistics
x=[10,250,350,450]
print(statistics.mean(x))

#numpy, pandas
```

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#### 13\_Troubleshooting

```
In [13]: #Syntax error

# print(we are learning python)

#mathematical error or run time error
# print(25/0)

# #string error
# name="yasir"
# print("hello name")

name="yasir"
print("Welcome"+name)
```

Welcomeyasir

# 14\_Conclusion

```
In [14]:
#Installation
#Command Line
#Vscode ad python
#First line of code
#operators
#commands
#variables
#type conversion
#if,elif,else
#functions
#loops (while and for)
```

#python libraries
#troubleshouting