python ka chla with baba_ammar

how to use note book

basics of python

01 -My first program

```
In [1]: print(3+3)
print("hellow world")
```

02 operator

```
In [2]:
        print(2+3)
        print(2-3)
        print(6/3)
        print(4*3)
        print(13%3)
        5
        -1
        2.0
        12
        1
In [3]: print(6//2) ##for the gainig whole number
        3
In [4]: print(2**4) ## for the power
        16
In [5]: print((8+5)+2*4/9+4+9**2) ## PEMDAS
        98.888888888889
```

03 -strings

```
In [6]: print("test for single quotes")
    print('test for double quotes')
    print('''test for triple quotes''')

    test for single quotes
    test for double quotes
    test for triple quotes

In [7]: print("whats's up")
    whats's up
```

04 -commnet in python

the shortcut key of comment is (clrt+/)

```
In [8]: print("ali fatmi")
# print ("we are learing python") how to write the comment (clrt+/)
print(2+9)

ali fatmi
11
```

05-variables

06-input variables

```
In [14]: basket = input("what is favort clour")
    print(basket)

    what is favort clourgreen
    green

In [15]: ## input 2 stage
    name = input("what is name")
    greeting ="hellow"

    what is nameali

In [16]: print(greeting, name)
    hellow ali

In [17]: # another stage
    name = input("what is name")
    print("helow", name)

    what is namefatmi
    helow fatmi
```

```
In [18]: name = input("what is your name ?")
    age = input("how old are u")
    greetings = "hellow"

    what is your name ?ali fatmi
    how old are u12

In [19]: print(greetings,name," ,you are still younge") # another way to use
    hellow ali fatmi ,you are still younge
```

07-conditional logical operator

```
In [20]: print(4==4)
          print(3!=3)
          print(3<4)</pre>
          print(4>5)
          print(3<=4)</pre>
          print(4>=5)
          True
          False
          True
          False
          True
          False
In [21]: | aliage = 5
          schoolage = 6
          print(aliage==schoolage)
          False
In [22]: | ageschool = 5
          x = input("enter age") #input operator
          x = int(x)
          print(ageschool==x) # logical function
          enter age4
          False
```

08-type_conversion

```
In [23]: x = 10
         y = 10.8
         z= "hellow"
         x= x*y ## implict conversinon
         print(type(x))
         <class 'float'>
In [24]: | age = input("what is your age")
         what is your age6
In [25]: type(age)
Out[25]: str
In [27]: # explicit conversion
         age = input("what is your age")
         print(age , type(int(age))) # convert to int
         what is your age5
         5 <class 'int'>
In [28]: | name = input("name")
         print(name , type(str(name))) # convet to str
         nameali
         ali <class 'str'>
```

09-if else elif`

```
In [29]: school_age=5
    age = 2
    if age==school_age:
        print("i can go school")
    elif(age>school_age):
        print("should go high school")
    elif(2<=age):
        print("should care")
    else :
        print("can not go")</pre>
```

should care

10-functions

```
In [30]:
         print("my name is fatmi")
         print("my name is fatmi")
         print("my name is fatmi")
         print("my name is fatmi")
         my name is fatmi
         my name is fatmi
         my name is fatmi
         my name is fatmi
In [31]: def print_fun(): # first method
              print("my name is fatmi")
              print("my name is fatmi")
              print("my name is fatmi")
          print fun()
         my name is fatmi
         my name is fatmi
         my name is fatmi
In [32]: | def print_fun(): # second mehtod
              text="my name is fatmi"
              print(text)
              print(text)
         print_fun()
         my name is fatmi
         my name is fatmi
In [33]:
         def print fun(text): # 3 mehtod
              print(text)
              print(text)
         print fun("hellow world")
         hellow world
         hellow world
In [34]:
         ## defing the function with if else function
         def school_cal(age):
              if age==5:
                  print("yes can go school")
              elif(age>5):
                  print("should go high school")
              else:
                  print("can not go")
          school_cal(6)
         should go high school
```

```
In [35]: # Defining the future age
    def future_age(age):
        new=age+20
        return new
    pridected=future_age(20)
    print(pridected)
```

11-loops

```
In [36]: #while loops
          x=0
         while (x<5):
              print(x)
              x=x+1
         0
         1
         2
         3
         4
In [37]:
         #for Loops
          for x in range(5,10):
              print(x)
         5
         6
         7
         8
         9
In [38]: #arry
          days =["monday","tuseday","wednesdy","thu","fri","sat","sun"]
          for d in days:
              if (d== "fri"):break ## using break statement
              print(d)
         monday
         tuseday
         wednesdy
         thu
```

12-import libaries

13-troubleshooting