Python chilla with Aamar Baba

Basic of Python

01-My frist program

```
In [1]: print(2+3)
    print("hello world")
    print("we are larning python with aamar")

5
    hello world
    we are larning python with aamar
```

02-operatiors

```
In [2]:
        print(2+3)
         print(3-5)
         print(3/4)
         print(3*2)
         print(3%6)
         print(3//4)
         print(4**3)
         print(3**2/3*3+6-6)
        5
         -2
        0.75
        6
        3
        0
        64
        9.0
```

03-String

```
In [4]: print("hello world")
    print("we are learning with aamar")
    print('put a code in single quotes')
    print("put a double quotes")
    print('''put a code in tripple quotes''')
    print("what's up")

hello world
    we are learning with aamar
    put a code in single quotes
    put a double quotes
    put a code in tripple quotes
    what's up
```

04-Comments

```
In [5]: #press those to comment out (Ctrl+/)
    print("how are you")
    print("we are learning with aamar")#print a string
    print(2*4)#print operatiors function with numbers

how are you
    we are learning with aamar
    8
```

05-Variables

```
In [6]: # #variables:objects containing specific values
        x = 5 #numaric or integer variable
        print(x)
        y="we are learning python with aamar"#string variable
        print(y)
        x=x+10 \# or x=15
        print(x)
         # #types/class of variable
         type(x)
         print(type(x))#numaric class
        type(y)
         print(type(y))#string class
        # #print_type_class
        # #-Rule to assign a variable
        # #-The varibale should contain latter, number or underscore
        # #-Do not start with a number
        # #-Spaces are not allowed
        # #-Do not use keyword in functions (break, mean , media, etc.)
        # #-Short and discriptive
         # #-case sensrivity (Lowercase,and upercase)lowercase should be used
        fruit_basket1=8+3
         fruit_basket="Mangos"
        fruit basket2="Bananas"
         print(fruit basket1)
         print(fruit basket, fruit basket2)
        print(type(fruit_basket))
        we are learning python with aamar
        15
        <class 'int'>
        <class 'str'>
        Mangos Bananas
        <class 'str'>
```

06-Input_variables

```
fruit basket="Mangos"
In [7]:
        print(fruit_basket)
        # #input Function
        from unicodedata import name
        fruit_basket=input("what is your name? ")
         print(fruit basket)
        #-2nd stage input function
        name=input('what is your name? ')
         greetings="hello!"
        print(greetings,name)
        # #-3rd stage input function
         name=input("what is your name? ")
         print("hello!",name)
        #-4th stage input function
        name=input("what is your name? ")
         age=input("how old are you ")
         greetings="Hello!"
         print(greetings,name, ", your are still young")
         reply=input("")
        print(reply)
        Mangos
        what is your name? usama
        usama
        what is your name? usama
        hello! usama
        what is your name? usama
        hello! usama
        what is your name? usama
        how old are you 20
        Hello! usama , your are still young
        yes
        yes
```

07-Conditional_Logic

```
print(4!=5)
print(4>5)
print(5<6)</pre>
print(5<=6)</pre>
print(7>=6)
#application of logical operator
ali_age=5
school_age_is=3
print(ali age>=school age is)
#input Function and logical operator
school age is=5
ali_age=input('what is ali age? ')
ali_age=int(ali_age)
print(school_age_is<=ali_age)</pre>
True
True
False
True
True
True
True
what is ali age? 2
False
```

08-Type_Conversion

```
In [9]: from tkinter import Y
        x=11
                                 #integer
        y=15.1
                                 #float
        z="hello world"
                                 #string
        x=x*y
        #implecit type conversion
        print (x,"type of x is",type(x))
        #explicit type conversion
        age=input("what is your age")
        print(age,type(int(age)))
        166.1 type of x is <class 'float'>
        what is your age23
        23 <class 'int'>
```

09-if_else_elif

```
In [10]: #required_age_at_school
    usama_age=3
    school_required_age=5
    if usama_age==school_required_age:
        print("usama go to school")
    else:
        print("Age is not complete for joining school")
```

```
usama_age=input("what is usama age? ")
school required age=5
usama_age=int(usama_age)
print(type(usama_age))
if usama_age == school_required_age:
    print("Usama has join the School")
elif usama age>school required age:
    print("Usama should join higher secoundary School")
elif usama age <= 2:</pre>
    print("Usama is still a baby")
else:
    print("Age is not complete for joining School")
Age is not complete for joining school
what is usama age? 3
<class 'int'>
Age is not complete for joining School
```

10- function

```
In [11]: #Defining a function
          # 1
          from cgitb import text
          from hashlib import new
          from tarfile import USTAR FORMAT
          def print umar():
              print("we are learning with aamar")
              print("we are learning with aamar")
          print umar()
          # # 2
          def print_umar():
              text="we are learning with aamar"
              print(text)
              print(text)
          print umar()
          #_3
          def print_umar(text):
              print(text)
              print(text)
          print_umar("we are learning with ammar")
          # #defining a function with if, elif and else statment
          def school_calculator(age,text):
              if age==5:
                  print("Usama is join the School")
              elif age>5:
                 print("Usama is should go to higher secoundary school")
              else:
                 print("Usama is still a baby")
          school calculator(20, "Usama")
          # define a function of future
```

```
def future_age(age):
    new_age=age+20
    return new_age
    print("new age")

future_age_predication=future_age(18)
print(future_age_predication)

we are learning with aamar
we are learning with ammar
we are learning with ammar
we are learning with ammar
Usama is should go to higher secoundary school
38
```

11-Loops

```
In [12]: # #while and For loops

# #while loops

from re import X

x=0
    while (x<=5):
        print(x)
        x=x+1

# # for loop

for x in range(4,11):
        print(x)

#array
days= ["Mon", "tue", "wed", "thu", "fri", "sat", "sun"]

for d in days:
    if (d=="fri"): break #Loop stop
    print(d)</pre>
```

12-Import Libraries

```
In [13]:
         #if you want to print the value of pi
          import math
          print("the value of pi is",math.pi)
          import statistics
         x=[100,200,350,500]
          print(statistics.median(x))
         the value of pi is 3.141592653589793
```

13-Truble_Shooting

275.0

```
In [ ]: # print(we are Learning puthon with aamar)#this is syntex error
        #print(25/0)# this is runtime error
```