Python ka chilla with baba ammar

How to use jupyter notebook

Basics of python

01- My first program

```
In [1]:
         # My first code in jupyter
         print(2+3)
         print("Hello World")
         print("I am learning python")
         5
        Hello World
        I am learning python
        02- operators
In [2]:
         print(2+2)
         print(3-2)
         print(2*3)
         print(6/3)
         print(13%2)
         print(6//2)
         print(2**3)
         print(3**2/2*3/3+6-4)
        4
         1
        6
         2.0
         1
        8
```

PEMDAS Parenthesis, Exponents, Multiply, Divide, Addition, Subtraction Multiplication and division runs from left to right Addition and subtraction runs from left to right

03-Strings

I am learning python

```
Test for single quotes
Test for single quotes
Test for single quotes
What's up ?
Salahuddin strings clear
```

04- Comments in python

the shortcut key to comments is ctrl+/

```
print("How are you?")
print("We are learning phyton with aammar") # print a string
print(2+3) #print an operator function with numbers

How are you?
We are learning phyton with aammar
5
```

05- Variables

```
In [5]:
         #Variables: objects containing specific values
         x = 5 #Numeric variable
         print(x)
         y = "We are learning python with Ammar" #string variable
         print(y)
         x = x + 15
         print(x)
         #Types of variables
         print(type(x))
         print(type(y))
         # Rules to assign a variable
         # 1- Number
         fruit_basket = "Mangoes , oranges"
         print(fruit_basket)
         del fruit basket
```

```
We are learning python with Ammar 20 <class 'int'> <class 'str'> Mangoes , oranges
```

06- Input variables

```
In [6]:
    # fruit_basket = "Mangoes"
    # #input function
    # fruit_basket=input("Which is you favourite fruit? ")
    # print(fruit_basket)

# #input second stage
```

```
# name=input("What's your name? ")
# greetings="Hello!"
# print(greetings, name)

#input second stage
name=input("What's your name? ")

print("Hello!", name)
```

What's your name? Salahuddin Hello! Salahuddin

07- Conditional logics

```
In [7]:
         # Equal to ==
         # Not equal to !=
         # Less than <
         # Greater than >
         # less than and equal to <=
         # greater than and equal to >=
         #Is 4 equal to 4
         print(4==4)
         print(4!=4)
         print(3 < = 4)
         print(5>=4)
         Salah_age=input("How old is Salah? ")
         age at school = 5
         Salah_age=int(Salah_age)
         print(Salah_age>=age_at_school)
```

True
False
True
True
How old is Salah? 5
True

08- Conversions

```
In [8]:
    x = 10
    y = 10.2
    z="Hello"
    print(x,y,z)
    #Implicit type conversion
    x = x+y
    print(type(x))
    #explicit type conversion
    age=input("What's your age? ")
    print(age, type(float(age)))

10 10.2 Hello
    <class 'float'>
    What's your age? 20
```

09- if else elif

20 <class 'float'>

```
In [9]:
```

```
reqiured_age_at_school = 5
hammad_age = 8
# question: can hammad go to school

if hammad_age==reqiured_age_at_school:
    print("Hammad can join the school")

elif hammad_age> reqiured_age_at_school:
    print("Hammad should join higher secondary school")
else:
    print("Hammad cannot join the school")
```

Hammad should join higher secondary school

10- Functions

```
In [10]:
    print("We are babies")

#defining a fuction
def print_codanics(text):
        print(text)
        print(text)
        print(text)
        print(text)
print_codanics("SALAHuddin")
```

We are babies SALAHuddin SALAHuddin SALAHuddin

11- Loops

```
In [11]:
#While and For loop
#While Loops
x=0
while(x<=5):
    print(x)
    x=x+1

for x in range(5,10):
    print(x)

#Erray
days =["Mon", "Tue","Wed", "Thu","Fri","Sat","Sun"]
for d in days:
    # if (d=="Fri"):break #Loop stops
    if (d=="Fri"):continue #Loop skips
    print(d)</pre>
```

0

```
6
7
8
9
Mon
Tue
Wed
Thu
Sat
```

Sun

12- Import libraries

```
In [12]: #if you want to print the value of pi
import math
print("the value of pi is: ",math.pi)

import statistics
x = [150,250,350,450]
print(statistics.mean(x))

# Some important liberaries
# numpy, pandas
```

the value of pi is: 3.141592653589793 300

13- Trouble shooting

Hello name

```
In [ ]:
```