Python ka chilla with baba_aammar

How to use jupyter_notebook

Basics of python

1.My first program

In [77]:
```
print(4+3)
print("hello")
print("babar",566)
```

```
7
hello
babar 566
```

2.Operators

In [78]:
```
print(2*3)
print(4/4)
print(3+5)
print(2-1)

print(2**3)

print(2**3*2/2+3-1)
print(2//2)
print(2/2)
print(2+3)
```

```
6
1.0
8
1
8
10.0
1
1.0
5
```

pemdas parenthesis exponenthesis multiplication addition substraction

3.Strings

In [79]:
```
print("hello mohsin")
print("hi dear")
print("for double quote")
print('for single quote')
print('''for triple quote''')
print("what's up")
```

```
hello mohsin
hi dear
for double quote
for single quote
for triple quote
what's up
```

string_clear

4.Comments

In [80]:

```
print("how are you?")
from turtle import clear
print(2+3)
print("how is the day")
```

```
how are you?
5
how is the day
```

comments clear

5.Variables

In [81]:

```
x=3
print(x)
y=("i am learning python")
print(y)
y=("i am learning python")
print(y)
y=("i am best")
type(y)
print(type(y))
x=2
print(x)
y=3
print(type(y))
```

```
3
i am learning python
i am learning python
<class 'str'>
2
<class 'int'>
```

Rules to assign a variable

1.use only upercase letter or lower case letter.

3.do not use spaces in python

4.do not start with a number

5.do not use keyword which are used as functions e.g break,del,media.

6.short and descriptive

06.Input variables

In [82]:
```
fruit_basket="mangoes"
print(fruit_basket)
#input function simpe
fruit_basket=input("who is your fav player?")
print(fruit_basket)


#input_funtion of second stage
name=input("what is your name")
print("hello",name)


#input_function of 3rd stage
name=input("what is your name? ")
age=input("how old are you? ")
greetings="hello"
print(greetings,name,age)
```

```
mangoes
who is your fav player?babar
babar
what is your namemohsin
hello mohsin
what is your name? mohsin
how old are you? 24
hello mohsin 24
```

07.Conditional_Logics

In [83]:
```
#logical_operators are either "true or false","yes or no","0 or 1"
# equal to                  ==
# not equal to              !=
# less than                 <
# greater than              >
# less than or equal to     <=
# greater than or equal to  >=


print(4==4)
print(5<7)
print(3>1)
print(2<=2.10)
print(3>=2.99)


#application of logical operators
age_require_atschool=5
ali_age=4
print(ali_age==age_require_atschool)

#another_way
age_require_atschool=5
hammad_age=input("how old is hammad?")
```

```
hammad_age=int(hammad_age)
print(type(hammad_age))
print(hammad_age==age_require_atschool)
print(2==2)
```

```
True
True
True
True
True
False
how old is hammad?4
<class 'int'>
False
True
```

08.Type_Conversion

In [84]:

```
age=input("what is your age")
print(type(int(age)))

# implicit_function
x=2
y=10.3
print(type(x))
print(y,type(y))
print(x+y,type(x+y))

#explicit_function
x=input("what is your age")
print(x,type(int(x)))


mohsin=input("what is your age")
print(type(int(mohsin)))

x=3
y=3.5
print(type(x))
print(type(y))  #implicit
print(x*2/3+6-y)
```

```
what is your age24
<class 'int'>
<class 'int'>
10.3 <class 'float'>
12.3 <class 'float'>
what is your age24
24 <class 'int'>
what is your age24
<class 'int'>
<class 'int'>
<class 'float'>
4.5
```

09.If_Elif_Else

In [85]:

```
hammad_age=4
```

```
age_require_atschool=5
if hammad_age==age_require_atschool:
    print("hammad can go to school")
elif hammad_age > age_require_atschool:
    print("hammad should join higher scendory school")
else:print("hammad can not go to school")
```

```
hammad can not go to school
```

10.Function

In [86]:

```
print("we are learning python with aammar")
print("we are learning python with aammar")
print("we are learning python with aammar")


def print_codanics():
    print("we are learning python with aammar")
    print("we are learning python with aammar")
    print("we are learning python with aammmar")
print_codanics()


def print_codanics():
    text=("we are learning python with aammar")
    print(text)
    print(text)
    print(text)
print_codanics()

def  school_calculator(age):
    if   age==5:
        print("hammad can go to school")
    elif age<5:
        print("hammad can not join")
    else:
        print("hammad can join higher")
school_calculator(6)
```

```
we are learning python with aammar
we are learning python with aammar
we are learning python with aammar
we are learning python with aammar
we are learning python with aammar
we are learning python with aammmar
we are learning python with aammar
```

```
we are learning python with aammar
we are learning python with aammar
hammad can join higher
```

11.Loops

In [87]:

```
#while_loop


x=2
while     (x<5):
         print(x)
         x=x+1



x=40
while     x>=1:
          x=x-1
          print(x)

#for_loop

colours=("white","black","red","purple","blue","orange","grey")
for     d in colours:
        if (d=="red"):continue
        print(d)
```

```
2
3
4
39
38
37
36
35
34
33
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
```

```
13
12
11
10
9
8
7
6
5
4
3
2
1
0
white
black
purple
blue
orange
grey
```

12.Import_Libraries

In [88]:

```
print(math.pi)

x=(350,250,450,400)
print(statistics.mean(x))
```

```
3.141592653589793
362.5
```

13.Troubleshooting

In [89]:

```
print(24/0)   #runtime error

name="hello aammar"
print("c")

#syntax error
#runtime error
#sementic error
```

```
---------------------------------------------------------------------------
ZeroDivisionError                         Traceback (most recent call last)
C:\Users\ZAHIRI~1\AppData\Local\Temp/ipykernel_6520/2722086235.py in <module>
----> 1 print(24/0)   #runtime error
      2
      3 name="hello aammar"
      4 print("c")
      5

ZeroDivisionError: division by zero
```

In [ ]: