PYTHON KA CHILLA BY BABA AMMAR

Basics of pythons

01_first programming

```
In [1]:   print(2+3)
          print("hello datascientist girl")
          print("azka is a nice name")
          print("baba aammar is a great teacher")
```

```
5
hello datascientist girl
azka is a nice name
baba aammar is a great teacher
```

02_operators

PEMDAS RULE

```
In [2]:   print(2+22)
          print(25-1)
          print(12*2)
          print(68/2)
          print(68//2)
          print(2**10)
          print(65%10)
          print(2**10*4/30+10-4)
```

```
24
24
24
34.0
34
1024
5
142.53333333333333
```

03_strings

```
In [3]:   print('hello datascientist girl')
          print("azka is a nice name")
          print('''baba aammar is a great teacher''')
          print("whats'up")
          print('''the qoutes are "this"''')
```

```
hello datascientist girl
azka is a nice name
baba aammar is a great teacher
whats'up
the qoutes are "this"
```

04_comments

shortcut key is **ctrl/**

```python
print(2**10*4/30+10-4) #its an operator function with numbers
print('''the qoutes are "this"''')        #its an string function  triple qo
print("baba aammar is a great teacher")   #its an string function double qoutes
```

In [4]:

```
142.53333333333333
the qoutes are "this"
baba aammar is a great teacher
```

5_variables

In [5]:

```python
#variable is an object containing specific value
from inspect import walktree


x=5111
print(x)
y="iam understanding python by aammar"
print(y)
print(x,y)
z=51
print(x+z)
t=x-z
print(t)
t=x-500
print(t)
#types of variables
print(type(x))
print(type(y))
print(type(z))
print(type(t))
```

```
5111
iam understanding python by aammar
5111 iam understanding python by aammar
5162
5060
4611
<class 'int'>
<class 'str'>
<class 'int'>
<class 'int'>
```

rules for variables

1. may contain letters,numbs,underscore
2. dont start with numbers
3. no spaces pls
4. no keywords used in functions
5. short and descriptive
6. should use lower case**

In [6]:

```python
water1="life"
water2="drink"
water3="tasteless"
water4=876
print(water1)
print(water2)
print(water3)
print(water4)
```

```
print(type(water1))
print(type(water4))
```

```
life
drink
tasteless
876
<class 'str'>
<class 'int'>
```

06_input_variables

In [7]:
```
juices_available="mango"
print(juices_available)
juices_available=input("which juice do you like? ")
print(juices_available)

juices_available=input("which juice do you like? ")
name=input("what's your good name sir")
print(juices_available, "is available at us","dear",name)
```

```
mango
which juice do you like? mango
mango
which juice do you like? apple
what's your good name sirjunaid
apple is available at us dear junaid
```

07_conditional_logics

logical operators are "true/false", "yes/no" or "1/0" == / != / < / > / <= / >=

In [8]:
```
print( 5==10)
print( 5!=10)
print( 5<=10)
print( 5>=10)
print( 5<10)
print( 5>10)

height_for_model=5
azka_height= input("what is ur height? ")
print(type(azka_height))
print(height_for_model==azka_height, "you are suitable")
```

```
False
True
True
False
True
False
what is ur height? 160
<class 'str'>
False you are suitable
```

08_type_conversion

In [9]:
```
x=20
y=23.9
z="elon musk"

print(type(x))
```

```python
print(type(y))
print(type(z))


print(type(float(x)))

print(type(str(z)))
```

```
<class 'int'>
<class 'float'>
<class 'str'>
<class 'float'>
<class 'str'>
```

09_if_else_elif

In [10]:
```python
fruit_basket_minimum_order=5
your_fruits=7
# your_fruits=input("how many fruits u wanna add? ")
# print(type(int(your_fruits)))
# print(type(int(fruit_basket_minimum_order)))
if your_fruits==fruit_basket_minimum_order:
    print("your order will be procceded")
elif your_fruits > fruit_basket_minimum_order:
    print("your order will be procceded")
else:
    print("you should add more fruits")
```

```
your order will be procceded
```

10_functions

In [11]:
```python
def print_azka():
    print("she is a nice girl")

print_azka()

def az_ka(text):
    text="she is a nice girl"
    print(text)

az_ka

def az_ka(text):
    print(text)
az_ka("she is a nice girl")
```

```
she is a nice girl
she is a nice girl
```

11_while and for loops

In [12]:
```python
x=0
while (x<5):
    print(x)
    x=(x+1)


for a in range(3,8):
    print(a)
```

```python
for t in range(77,88):
    print(t)

x=5
while(x<7):
    print(x)
    x=(x+2)

colors=["blue","pink","red","yellow","green"]
for c in colors:
    # if (c=="red"):break
    if (c=="red"):continue
    print(c)
```

```
0
1
2
3
4
3
4
5
6
7
77
78
79
80
81
82
83
84
85
86
87
5
blue
pink
yellow
green
```

12_libararies

In [13]:
```python
import math
print("value", math.pi)

import statistics
x=[22,33,44,55]
print(statistics.mean(x))
```

```
value 3.14159265358979
38.5
```

13_troble_shooting

In [14]:
```python
print(iam azka saleem)# syntax error
print(25/0)           # runntime error
name=azka
print("hello name)"   # unknown error
```

```
  File "C:\Users\Azka\AppData\Local\Temp/ipykernel_2724/658714995.py", line 1
    print(iam azka saleem)# syntax error
                  ^
SyntaxError: invalid syntax
```

THE CODE IS MADE BY PYTHON VSCODE IDE JUPYTER SAVED AS HTML. ITS THE END. BUNDLES OF THANKS AND APPRECIATION TO THE INSTRUCTOR BABA AAMMAR. JAZAKALLAH KHAIR.