python ka chila

baba amar

basics of python

00_first

In [26]:
```
print('hello python')
```

```
hello python
```

01_operators

In [ ]:
```
print(2+1)
print(3**2) # double starik use for power
print(3-2)
print(4/2)
print(4//2) # double // eleminate decimal
print(5%2) # % use for remander

# PEMDAS   Operators precidenace

print((2*3)+3/2*5-2)

# left to right
```

02_string

print('hello this is a single qoute') print("this is a double qoute") print('''this is a tripple coute''')

print("What's up")

03_comments

In [ ]:
```
# print('hello this is a single qoute')
# print("this is a double qoute")
# print('''this is a tripple coute''')

# print("What's up")

# use ctrl+/ for select multipul lines comments
```

04_variable

In [ ]:
```
#rules for variable
# 1 variable should b letters or underscore
# 2 variable shoukd b numbers
# 3 spaces are not allowd
# 4 keywords are not variable so avoid keywords
# 5 variables are case senstive in python
```

05_input variable

In [17]:
```
# basket =input("kon sa fruite chahe ap ko ")
# print(basket)

name = input("what is your name ")
# print("hello !", name)

age = input("your age ")
msg = "Hello ! "
print(msg, name, "your age is ", age)
```

```
what is your name awais
your age 23
Hello !  awais your age is  23
```

06_conditation logic

In [18]:
```
# print(4==4)
# print(4!=4)
# print(4<4)
# print(4<=4)


#application of logical operators
age_at_school= 5
s_age= input("please enter student age = ")
print("input type before conversion ")
print( type(s_age))  #input is string
print("input type aftere conversion ")
s_age= int(s_age)   # convert input into integer
print(type(s_age))
print(age_at_school==s_age)
```

```
please enter student age = 23
input type before conversion
<class 'str'>
input type aftere conversion
<class 'int'>
False
```

07_type conversion

In [19]:
```
x = 5
y = 10.5
z = "hello"
    #implicit type conversion
x = x+y
print(x, "Type of x is", type(x))
    #explicit type conversion
x = input("please enter ur age ")
print(x, "Type of x is ", type(int(x)))
```

```
15.5 Type of x is <class 'float'>
please enter ur age 23
23 Type of x is  <class 'int'>
```

08_if_else_ilif

In [21]:
```
age_at_school = 5
s_age= input("please enter student age ")
s_age= int(s_age)
if s_age == age_at_school:
    print("student can go to school")
elif s_age > age_at_school:
    print("student should go higher school")
elif s_age<= age_at_school:
    print("your baby is niku hai ")
else:
    print("student can not go to school")
```

```
please enter student age 3
your baby is niku hai
```

09_functions

In [22]:
```
#defining a function method 1
# def print_fun():
#     print("this is a user define function")

# print_fun()

# def calulator(age):
#     if age == 5:
#         print("u can go school")
#     elif age>5:
#         print("u should go high school")
#     else:
#         print("your babay is niku")

# calulator(10)

# def future function
from types import new_class


def future_age(age):
    new_age = age+70
    return new_age
    print(new_age)


pridected_age= future_age(24)
print(pridected_age)
```

```
94
```

10_loops

In [23]:
```
# example of while loop
# x = 0
# while (x <= 5):
#     print(x)
#     x = x+1

# example of for loop
```

```
# for x in range(1,10):
#     print(x)

# array
days =["mon","tue","wed","thu","fri","sat","sun"]
for d in days:
    if(d == "fri"): break
    print(d)
```

```
mon
tue
wed
thu
```

11_libraries

In [25]:

```
#if u want to print value of pi
import math
import statistics
print("the value of pi is", math.pi)

x = [120,130,145]
print("mean of x is", statistics.median(x))
```

```
the value of pi is 3.141592653589793
mean of x is 130
```

12_trouble shoiting

In [ ]:

```
# print(hello python)     Syntax Error

# print(25/0)       Runtime Error

# name= "awais"
# print("hello name")   sementic error
```

In [ ]:

```

```