

python ka chilla

how to use jupyter notebook

Basics of python

1- My first program in python

```
In [1]: print(2+3)
        print('Hello WORLD FROM Waqas Ahmed Khawaja')
        print("Learnning python with ammar 19-1-2022 1:45AM")
```

5
Hello WORLD FROM Waqas Ahmed Khawaja
Learnning python with ammar 19-1-2022 1:45AM

2- Operators

```
In [2]: print(2+3)
        print(2-3)
        print(2*3)
        print(6/3)
        print(5%3)
        print(5//3)
        print(2**3)

        print(2**10/2)
```

5
-1
6
2.0
2
1
8
512.0

3- Strings

```
In [3]: print('Hello WORLD FROM Waqas Ahmed Khawaja')
        print("Learnning python with ammar 19-1-2022 1:45AM") #ctrl+/
```

Hello WORLD FROM Waqas Ahmed Khawaja
Learnning python with ammar 19-1-2022 1:45AM

```
In [4]: print('Test for Single Quotes')
        print("Test for double quotes")
        print("""
```

```

TEST
FOR TRIPLE QUOTES""")

print("What's Up?")
print(''My answer is "I am Good"''')

```

Test for Single Quotes
Test for double quotes

```

TEST
FOR TRIPLE QUOTES
What's Up?
My answer is "I am Good"

```

04- Variables

Object containing specific values

In [5]:

```

x = 5
print(x)

y = 'WE ARE learning python with ammar'
print(y)
x = x+5

print(x)

print(type(x))
print(type(y))
# print_type_class

fruit_basket = "Mangoes"
print(fruit_basket)

```

```

5
WE ARE learning python with ammar
10
<class 'int'>
<class 'str'>
Mangoes

```

06- Input variables

In [6]:

```

fruit_basket = "Mangoes"
print(fruit_basket)

```

Mangoes

In [7]:

```

fav_fruit=input('Which is your favourite fruit: ')
greetings='your fav_fruit is: '
print(greetings,fav_fruit)

```

Which is your favourite fruit: grapes
your fav_fruit is: grapes

Another way of stage 2 input function

In [8]:

```

name = input("What is your name")
greetings = 'Hello Mr/Ms.'
# print(greetings,name)
# 3rd stage input function
age=int(input('What is your age'))
print(greetings,name,'you are',age,'years old')
# input_aammar_you are still young

```

What is your nameWaqas Ahmed Khawaja
 What is your age32
 Hello Mr/Ms. Waqas Ahmed Khawaja you are 32 years old

07 - conditional logic

== , < , > , <= , >= , && , ||

In [9]:

```

print(4==4)
print(4!=4)
print(5<4)
print(4>3)
print(5<=4)
print(4>=3)

```

True
 False
 False
 True
 False
 True

application of logical operators

In [10]:

```

mustafa_age=4
school_age = 5

print(mustafa_age==school_age)

```

False

input function and logic operator

In [11]:

```

mustafa_age=input("How old is Mustafa?")
school_age = 5

print("can Mustafa go school? ",int(mustafa_age)==school_age)

```

How old is Mustafa?5
 can Mustafa go school? True

08 - type conversion

In [12]:

```

# implicit conversion
# x=1
# y=1.2

```

```
# z="hello"
# print(type(x))
# x=x*y
# print(type(x))
# x=1*z
# print(type(x))
# print(type(y))
# print()
# print(type(z))

# explicit type conversion
age = input("Enter your age:")
print(age,type(age))
age = int(age)
print(age,type(age))

# type conversion
```

```
Enter your age:32
32 <class 'str'>
32 <class 'int'>
```

09 - ifelifelse statement

In [13]:

```
school_age=5

mustafa_age=int(input("Please provide Mutaafa age:"))

if mustafa_age==0:
    print("before going to school he needs be geborn.")
elif mustafa_age<school_age:
    print("he can not go school yet but after",school_age-mustafa_age,"years")
elif mustafa_age==school_age:
    print("This year he can go school congrats!")
else :
    print("you need to report geminde first")

# if elif Else statement clear.
```

```
Please provide Mutaafa age:5
This year he can go school congrats!
```

10 - functions

defining a function

In [14]:

```
def print_5(x):
    print(x)
    print(x)
    print(x)
    print(x)
    print(x)
```

In [15]:

```
print_5("Hello Waqas Ahmed Khawja")
```

```
Hello Waqas Ahmed Khawja
Hello Waqas Ahmed Khawja
Hello Waqas Ahmed Khawja
Hello Waqas Ahmed Khawja
Hello Waqas Ahmed Khawja
```

In [16]:

```
def print_4(x):
    x=x+'\n'
    print(x*4)

print_4("hello")
```

```
hello
hello
hello
hello
```

defining a fuction with if else elif staements.

In [17]:

```
def can_go_school(age):
    school_age = 5
    if age<0:
        print("before going to school he needs be geborn.")
    elif age<school_age:
        print("he can not go school yet but after",school_age-age,"years")
    elif age==school_age:
        print("This year he can go school congrats!")
    else :
        print("you need to report geminde first")
```

In [18]:

```
can_go_school(int(input("enter age of your child")))

# i understand functions really well.
```

```
enter age of your child2
he can not go school yet but after 3 years
```

11- loops

While loop

In [19]:

```
x=int(input("enter the number"))
while x<=5:
    print(x)
    x=x+1
```

```
enter the number2
2
3
4
5
```

for loop

In [20]:

```
days=["mon", 'tue', 'wed', 'thurs', 'fri']
```

```
for d in days:  
    print(d)
```

```
mon  
tue  
wed  
thurs  
fri
```