

python ka chilla with rabia khan

how to use jupyter notebook

Basics of python

01- My first program

```
In [1]: print("2+3")
        print("Hello World")
        print("HOW YOU ARE FEELING TODAY")
        print(3%4)
```

```
2+3
Hello World
HOW YOU ARE FEELING TODAY
3
```

02-Operators

```
In [2]: print(4//2)
        print(4%2)
        print(8/4)
        print(9/2)
        print(2**4)
        print(2+3-(4*5))
```

```
2
0
2.0
4.5
16
-15
```

03-strings

```
In [3]: print('test for single quotes')
        print("test for double quotes")
        print(''''test for triple quotes''')
        print("'What's up'")
        print(3+3)
        print('test for me')
        print("test for two")
        print(''''test for three''')
        print("what's up")
```

```
test for single quotes
test for double quotes
test for triple quotes
'What's up
6
test for me
test for two
test for three
what's up
```

04-Comments

The shortcut key for comment is **ctrl+/**

```
In [4]: print("2+3")
        # print("How are you?")
        print("learn python with Rabia")
        print(4**4)
```

```
2+3
learn python with Rabia
256
```

05-Variables

```
In [5]: x=8
        x="ink"
        print(x)
        print(type(x))
        x=7
        print(x)
        print(type(x))
        y="i am rabia"
        print(type(y))
        basket='A'
        print(type(basket))
```

```
ink
<class 'str'>
7
<class 'int'>
<class 'str'>
<class 'str'>
```

06-Input the Variable

```
In [6]: x=input("put a integer number here.")
        print(x)

        name=input("What is your name?")
        greetings="Hello!"
        print(greetings,name)
```

```

name=input("What is your name?")
print("Hello!",name)

name=input("What is your name? ")
age=input("How old are you? ")
greetings="Hello!"
print(greetings, name, " You are still young")
age=input("your age")
birth_date=23-2024
print(birth_date,age)
name=input("What is your name")
age=input("What is your age")
print("hello",name,age,"i hope you are fine")

```

9

Hello! Rabia

Hello! Rabia

Hello! Rabia You are still young

-2001 19

hello Rabia 19 i hope you are fine

07-conditional-logic

```

In [7]: print(4!=4)
        print(4>3)
        print(3>=6)
        x_age=4
        age_at_school=5
        print(x_age==age_at_school)
        age_at_school=5
        x_age=input("How old is x?")
        x_age=int(x_age)
        print(type(x_age))
        print(x_age==age_at_school)
        print(4==4)
        print(4!=4)
        print(6<=3)
        rabia_age=6
        school_age=4
        print(rabia_age==school_age)

        age_at_school=5
        rabia_age=input("What is rabia age?")
        rabia_age=int(rabia_age)
        print(type(rabia_age))
        print(age_at_school==rabia_age)

```

False

True

False

False

```

<class 'int'>
False
True
False
False
False
False
<class 'int'>
False

```

08-type conversion

```

In [8]: x=10
        y=10.8
        z="Hello"
        x=x+y
        print(x, "type of x is:",type(x))
        age=input("What is your age?")
        age=int(age)
        print(type(int(age)))

```

```

20.8 type of x is: <class 'float'>
<class 'int'>

```

09-if-else-if

```

In [9]: age_at_school=6
        rabia_age=7
        if rabia_age==age_at_school:
            print("Rabia can go to school")
        elif age_at_school<=rabia_age:
            print("Rabia can not go to school")
        elif rabia_age==2:
            print("Rabia is still a baby.")
        else:
            print("Rabia should be at home.")

```

Rabia can not go to school

10-functions

```

In [10]: def future_age(age):
          new_age=age+10
          return new_age
          print(new_age)

          future_predicted_age=future_age(7)
          print(future_predicted_age)
          def print_codanics(age):
              print(age)
              print(age)
              print(age)
              print(age)
              print(age)
          print_codanics("20")

```

```
17
20
20
20
20
20
```

11-loops

```
In [11]: days=["Mon","Tues","wed","Thu","Fri","Sat","Sun"]
        for d in days:
            if(d=="Fri"):break
            print(d)
```

```
Mon
Tues
wed
Thu
```

12-import librarires

```
In [12]: import math
        print("The value of pi is", math.pi)

        import statistics
        x=[150,350,599]
        print(statistics.mean(x))
```

```
The value of pi is 3.141592653589793
366.3333333333333
```

13-Trouble shooting

syntax error

logical error

run-time error

```
In [ ]:
```