## python ka chilla with baba\_ammar

### how to use jupyter note book

### **Basics of python**

1- My first program 2- My second program

# Python ka chilla with baba ammar

### How to use jupyter notebook

### **Basics of Python**

#### 1- My first program

```
In [ ]: # My first program in python
    print("Hi boy")
    print("we are learning python")

5    Hi boy
    we are learning python

In [ ]:
In [ ]:
```

#### 2- My second program

PEMDAS Parenthesis Exponents Multiply Divide Addition Subtraction Left to Right sequence for M D & A S

#### 3- Strings

```
In []: print("Hello World")
    print('Test for single quotes')
    print("Test for double quotes")
    print('''Test for triple quotes''')

    print("What's up?")

Hello World
    Test for single quotes
    Test for double quotes
    Test for triple quotes
    What's up?
```

#### 4- Comments in Python

```
In [ ]: # The shortcut key is CTRL + /
```

#### 5- Variables

```
In [ ]: # variables are objects containing specific values
        x = 5
        print(x)
        y = "we are learning python with ammar" #string variable
        print (y)
        x=12
        print(x)
        type(x)
        print(type(x))
        # Rules to Assign variable
        # 1- the variable should contain letters, numbers or underscores
        # 2- Do not start with numbers
        # 3- Spaces are not allowed
        # 4- Do not use keywords use in functions
        # 5- Variable should be short and descriptive
        # 6- Case sensitive
        fruit basket= "Mangoes Basket"
        fruit_basket= "Mangoes_ Basket"
        # del fruit basket
        print(fruit basket)
        print(type(fruit_basket))
```

#### **6-Input Variables**

```
In [ ]: from turtle import fd
        fruit basket = "Mangoes"
         print(fruit_basket)
        # Input function simple
         fruit basket= input("What is your favourite fruit? ")
         print(fruit_basket)
        #Input function of 2nd stage
         name= input ("Whats your name? ")
         greetings= "Hello!"
         print(greetings, name)
         print("your favourite fruit is", fruit_basket)
         # 3rd stage input function
         name= input("What is your name? ")
         age= input("How old are you?")
         greetings= "Hello! "
        print(greetings, name, "You are still young and beautiful")
        Mangoes
        What is your favourite fruit? banana
```

What is your favourite fruit? banana banana
Whats your name? Rumman
Hello! Rumman
your favourite fruit is banana
What is your name? Rumman
How old are you?26
Hello! Rumman You are still young and beautiful

#### **7-Conditional Logics**

```
In [ ]: # logical operators are either "true or false" or "yes or no" or "0 or 1"
        # equal to
        # not equal
                           ! =
        # Less than
                            <
        # greater than
        # less than and equal to <=
        # greater than equal to >=
        # is 4 equal to 4?
        # print(4==4)
        # print(4!=4)
        # print(4>3)
        # print(3>6)
        # print(3>=6)
        # print(5>=4)
        #application of logical operators
        # hammad age=4
        # age at school=5
        # print(hammad_age==age_at_school)
        age_at_school=5
        hammad_age=input("How old is hammad? ") #input function
```

```
hammad_age=int(hammad_age)
print(type(hammad_age))
print(age_at_school==hammad_age) #logical_operator
# convert input

How old is hammad? 6
<class 'int'>
False
```

#### 8-Conversion

```
In [ ]: from tkinter import Y
        x = 10
                    #integer
        y = 10.2
                   #float
        z="Hello" #string
        # Implicit type conversion
        X=X+y
        print(x, "type of x is", type(x))
        #Explicit type conversion
        age= input("Whats your age?")
        age = int(age)
        print(age, type(age))
        #name
        name = input("what is your name")
        print(name, type(name))
        20.2 type of x is <class 'float'>
        Whats your age?26
        26 <class 'int'>
        what is your nameRumman
        Rumman <class 'str'>
```

#### 09-if\_else\_elif

```
In []: hammad_age= 3
    required_age_at_school=5

if (hammad_age==required_age_at_school):
    print("Congratulations! Hammad can go to school")
elif(hammad_age>required_age_at_school):
    print("Congratulations! Hammad can go to school")
elif(hammad_age<required_age_at_school):
    print("You should teach your child yourself")
else:
    print("Sorry! Hammad can not go to school")</pre>
```

You should teach your child yourself

```
print("We are Learning with ammar")
# # printcodanics();
# def printcodanics():
     text="we are learning with Aammar"
     print(text)
#
     print(text)
# def printcodanics(text):
     print(text)
#
     print(text)
     print(text)
# printcodanics("we are learning code with ammar")
def school_calculator(age):
    if(age==5):
        print("Hammad can join school")
    elif(age>5):
        print("hammad should go to higher school")
        print("Hammad is still a baby")
school_calculator(6)
def future_age(age):
    new_age=age+20
    return new age
    print (new_age)
Age_prediction= future_age(26)
print(Age_prediction)
```

hammad should go to higher school 46

#### 11- Loops

```
1
2
3
4
5
4
5
6
7
8
9
10
11
Mon
Tue
Wed
Thu
Sat
```

#### 12-Libraries

Sun

300

```
In []: #if you want to print value of pi
import math
print("The vaue of pi is", math.pi)

import statistics
x = [150, 250,350, 450]
print(statistics.mean(x))

The vaue of pi is 3.141592653589793
```

#### 13- Troubleshooting

```
In []: # print(we are learning python) # Syntax error

# print(25/0) # runtime error

# name = "Rumman"
# print("Hello name" ) # simantic error
```

# My\_firstline\_of\_code

print(7+3) print("Hi boy") print("we are learning python")