

we want to learn english

we are doing chilla of python

1 my first program 2 my second program

```
In [31]: print(2+5)
print("Hello world")
print("iam learnening and enjpying python")
print("iam clever")
print("Hello world")
print("Abdul Rahim")
print("This is not well")
```

```
7
Hello world
iam learnening and enjpying python
iam clever
Hello world
Abdul Rahim
This is not well
```

02-operators

```
In [32]: print(3+7)
print(8-6)
print(9*6)
print(10/5)
print(8%3)
print(10//5)
print(3**2)

print(2+8/4-2*8/4**2)
```

```
10
2
54
2.0
2
2
9
3.0
```

03-strings

```
In [33]: print("Hello world")
print("iam learnening and enjpying python")
print("iam clever")
print('Test for single quote')
print("test for double quote")
print('"' test for triple quote"')
```

```
Hello world
iam learnening and enjpying python
iam clever
Test for single quote
test for double quote
    test for triple quote
```

04-comments

```
In [34]: print("this is very nice")
        print("he is genius")
        print("i will learn python")
```

```
this is very nice
he is genius
i will learn python
```

05-variables

```
In [35]: # variable contain specfic object values
        x = 5
        print(x)
        y="we are learning with aamar"
        print(y)
        x=8
        print(x)
        print(x+10)
        print(x)
        # types or class of variable
        print(type(x))
        print(type(y))
        fruit_jar="grapes"
        print(fruit_jar)
        print(type(fruit_jar))
```

```
5
we are learning with aamar
8
18
8
<class 'int'>
<class 'str'>
grapes
<class 'str'>
```

06-input-variables

```
In [36]: fruit_basket="mangoes"
        print(fruit_basket)

        fruit_basket=input("what is your favourite fruit ?")
        print(fruit_basket)

        greetings= "Hello!"
        name=input("what is your name? ")
        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")

```

```

mangoes
what is your favourite fruit ?mango
mango
what is your name? Ali
Hello! Ali
what is your name? Ahmed
Hello! Ahmed
what is your name? Ahmed
How old are you?33
Hello! Ahmed ,You are still young

```

07-conditional-logic

In [39]:

```

print(9==9)
print(10!=9)
print(12<15)
print(12<10)
print(10>7)
print(10<=10)
print(15>=15)

# application of logical operators
ali_age=4
age_at_school=5
print(ali_age==age_at_school)

age_at_school=5
ali_age=input("how old is ali?" ) #input function
ali_age=int(ali_age)
print(ali_age==age_at_school) # Logical operator
print(type(ali_age))
ali_age=int(ali_age)
print(ali_age>age_at_school)
print(ali_age!=age_at_school)

```

```

True
True
True
False
True
True
True
False
how old is ali?5
True
<class 'int'>
False
False

```

08-type-conversion

In [40]:

```

age=input("What is your age? ")
print(type(age))

```

```
age=input("What is your age? ")
age=int(age)
print(type(int(age)))
print(age, type(int(age)))
print(age, type(float(age)))
```

*# where age not written at 1st
#when you want age should be written at*

```
What is your age? 18
<class 'str'>
What is your age? 40
<class 'int'>
40 <class 'int'>
40 <class 'float'>
```

09-if-elif-else

```
In [44]: hammad_age=8
required_age_at_school=5
# question: Hammad can go to school?

if hammad_age==required_age_at_school:
    print(" Congratulation! Hammad can join the school.")
elif hammad_age > required_age_at_school:
    print("Hammad can join the higher secondary school")
elif hammad_age <=2:
    print("You should take care of Hammad, he is still a baby!")
else:
    print("Hammad can not join the school")
```

Hammad can join the higher secondary school

10-functions

```
In [80]: print("we are learning python")
print("we are learning python")
print("we are learning python")
print("we are learning python")
print("we are learning python")
print("we are learning python")
print("we are learning python")

def print_Malik():
    print("we are learning python")    # 1defining a function
    print("we are learning python")
    print("we are learning python")
print_Malik()
#2
def print_Malik():
    text=("we will do more struggle to learn python")
    print(text)
    print(text)
    print(text)
    print(text)
print_Malik()

#3
def print_Malik(text):
    print(text)
    print(text)
    print(text)
print_Malik("our country is Pakistan")
```

4

```
def schoole_calculator(age): #defining a function if,elif and else statments

    if age==5:
        print("Hammad can join the School")
    elif age>5:
        print("Hammad should go to Higher School")
    else:
        print("Hammad is still baby")
schoole_calculator(8)

#5
#defining function of future
def future_age(age):
    new_age=age+18
    return new_age
future_prediced_age=future_age(19)
print(future_prediced_age)
```

```
we are learning python
we are learning python
we are learning python
we are learning python
we are learning python
we are learning python
we are learning python
we are learning python
we are learning python
we are learning python
we are learning python
we will do more struggle to learn python
we will do more struggle to learn python
we will do more struggle to learn python
we will do more struggle to learn python
our country is Pakistan
our country is Pakistan
our country is Pakistan
our country is Pakistan
Hammad should go to Higher School
37
```

11-loops

```
In [81]: #while and for Loops
#While loops

x=0
while (x<5):
    print(x)
    x=x+1
#for loops

for x in range(3,9):
    print(x)

# array
days = ("Mon", "Tue", "Wed", "Thu", "fri", "Sat", "Sun")
for d in days:
    #if (d=="fri"):break #Loop stop
    if (d=="fri"):continue
    print(d)
```

```
0
1
2
3
4
3
4
5
6
7
8
Mon
Tue
Wed
Thu
Sat
Sun
```

12-import-liabraries

In [82]: *# if you want to print the value of pi*

```
import math
print("The value of pi is" , math.pi)

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

#numpy pandas
```

```
The value of pi is 3.141592653589793
300
```

13-trouble-shooting

In [85]: *#print(we are Learning with Aammar) # syntax error*

```
#print(25/0) #runtime error
```

```
name="Aammar"
print("Hello", name)
```

```
Hello Aammar
```