Phyton Ka Chilla

Basic Programming of Python

Developed by Faiz Ali

- ## 01 My First Program

In [1]:

```
print(12 + 65)
print("Welcome to my First Program")
print("Hope you will enjoy")
```

```
77
Welcome to my First Program
Hope you will enjoy
```

- ## 02 Basic Operators

In [4]:

```
print("25  + 15 = ",  25 + 15 )
print("25  - 15 = " , 25 - 15)
print("25  * 15 = " , 25 * 15)
print("25  / 15 = " , 25 / 15)
print("25 // 15 = " , 25 // 15)
print("25  %  15 = " , 25 % 15)
print("5  **  5 = " , 5**5)
```

```
25 +  15 =  40
25 *  15 =  375
25 /  15 =  1.6666666666666667
25 -  15 =  10
25 // 15 =  1
25 %  15 =  10
5  **  5 =  3125
```

- ## 3. String Operation

In [7]:

```
print("Hello World")
print("Let's Print String in Different quotes Format")
print('String in Single quote')
print("String in double quote")
print('''String in triple quotes''')
print("what's up ? if single quote were used ")
```

```
Hello World
Let's Print String in Different quotes Format
String in Single quote
String in double quote
String in triple quotes
what's up ? if single quote were used
```

- ## 4. Using Comments

In [9]:

```
print( 2 + 5) #print Addition of two Values

# Print string of Hello in Python Group
print("Hello to every One, Plz order a tea for Baba Amaar")

print("Comments this message ,  thanks ") #use cnt + / for comment/uncomment
```

```
7
Hello to every One, Plz order a tea for Baba Amaar
Comments this message ,  thanks
```

- ## 5. Varibles

In [21]:

```
# Variable: A specific name to initialize/store a value
x= 5 # Numeric Value for variable x
print(x) #this will print x value
x = "I m also taking a string"
print(x) # plz print x string value
y = 15 # another varible y with valu 15
y = y - 4 # Operator applying
print(" y = ", y)
print(type(y)) # print type of varible y
print(type(x)) # print type of varible x

_colour = " Red, Yellow, Blue, Orange, Pink "
_colour = 5
print(_colour)
print(type(_colour))
print(_colour)
print(type(_colour))
del _colour
print(_colour) # Error : No variable Here name error
_colour = 7 # Again declared
print(_Colour ) # Error, Not define, as 'c' in lower case not in upper case 'C'
```

```
5
I m also taking a string
 y =  11
<class 'int'>
<class 'str'>
5
<class 'int'>
5
<class 'int'>

---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-21-97f75ad4330f> in <module>
     17 print(type(_colour))
     18 del _colour
---> 19 print(_colour) # Error : No variable Here name error
     20 _colour = 7 # Again declared
     21 print(_Colour ) # Error, Not define, as 'c' in lower case not in upp
er case 'C'

NameError: name '_colour' is not defined
```

- **6. Inputs from Keyboard for Variables**

In [ ]:

```
_colour = " Red"
print(colour)

# Simple Writing an Input function
_colour = input("What is ur favourite color to choose ")
print(_colour)

# 1- Prints input function 1 --
name = input("What is ur good name ")
greeting = "Hello  "
print( greeting , name)

# 2- Prints input function 2 ---
name = input("What is ur good name ")
print( "Hello Brother " , name)

# 3- Prints inputs function 3---
name = input("What is ur good name ")
age = input("How old are u brother  ")
exclamimed = " wow"
print( "Hello Brother " , name,", still under age of ", age, exclamimed)
```

- **7. Conditional Logic**

In [2]:

```
#
print(9==9)
print(9==0)
print(9 < 0)
print(9 > 0)
age = input( " Enter your age ")
print( " U are in young age ")
print(17 < int(age) )
print( " U are in child age ")
print(17 >= int(age) )
```

```
True
False
False
True
 Enter your age 56
 U are in young age
True
 U are in child age
False
```

- **8. Type Conversion**

In [3]:

```
x = 10 # integer
y = 2.5 # float value
z = "Chilla" # string
f = x*y
print(f,type(f))
age = input("What is ur age")
print(age, type(age))
print(age , type(int(age)))
name = input( "What is ur name")
print(name, type(str(name)))
```

```
25.0 <class 'float'>
What is ur age45
45 <class 'str'>
45 <class 'int'>
What is ur namehytr
hytr <class 'str'>
```

- **9. if, elif and else statement**

In [8]:

```
required_age_for_school = 14
hamaad_age = 4

# Question : Can Hamaad go to school?

if hamaad_age >= required_age_for_school:
    print("Admision acceptable for higher classes")
elif hamaad_age >= 5:
    print("plz permission in admission")
else:
    print("Hamaad can't be admitted, He is still baby")

# if, elif, else statement is clear
```

```
Hamaad can't be admitted, He is still baby
```

- **10. Function**

In [5]:

```
def Condanics_print_function_1():
    print(" I am learning python from Codanics channel ")
    print(" I am learning python from Codanics channel ")
    print(" I am learning python from Codanics channel ")
    print(" I am learning python from Codanics channel ")
Condanics_print_function_1()

def Condanics_print_function_2():
    txt = " I am learning python from Codanics channel 1 "
    print(txt)
    print(txt)
    print(txt)
    print(txt)
Condanics_print_function_2()

def Condanics_print_function_3(txt):
    print(txt)
    print(txt)
    print(txt)
    print(txt)

Condanics_print_function_3(" I am learning python from Codanics channel 2")

# Function with if , else statement
def School_Admission_catogry(age, txt):
    if age >= 14:
        print( txt , " admission is acceptable for higher classes")
    elif age >= 5:
        print(txt, " is able for admission")
    else:
        print(txt, " can't be admitted, He is still baby")

School_Admission_catogry( 15, "Ali")

def School_Admission_catogry(age):
    new_age = age + 14;
    #print(new_age)
    return new_age
future_predicted_age = School_Admission_catogry(56)
print(future_predicted_age)
```

```
 I am learning python from Codanics channel
 I am learning python from Codanics channel
 I am learning python from Codanics channel
 I am learning python from Codanics channel
 I am learning python from Codanics channel 1
 I am learning python from Codanics channel 1
 I am learning python from Codanics channel 1
 I am learning python from Codanics channel 1
 I am learning python from Codanics channel 2
 I am learning python from Codanics channel 2
 I am learning python from Codanics channel 2
 I am learning python from Codanics channel 2
Ali  admission is acceptable for higher classes
70
```

- ## 11. Loops (for, while)

In [9]:

```
x=0
while( x < 5):
    print(x)
    x = x + 1

for x in range(5,10):
    print(x)

day = ["Saturday","Sunday","Monday","Tuesday","Wed","Thurseday","Friday"]
for d in day:
    print(d)
    if d == "Sunday":
        print(" Hurrah! Today is holiday ")
```

```
0
1
2
3
4
5
6
7
8
9
Saturday
Sunday
 Hurrah! Today is holiday
Monday
Tuesday
Wed
Thurseday
Friday
```

- ## 12. Import Liberary

In [10]:

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

import statistics
stat= [56,85,54,90,72,90]
print( statistics.mean(stat) )

import numpy as np
import pandas as pd
```

```
 The value of pi is  3.141592653589793
74.5
```

- ## 13. Troubleshooting

In [13]:

```
#print( The python coding is too easy ) # syntex error
#print( 87/0 )  # runtime error

name = " The name of my python teacher "
print("Hello!" , nam ) # name error

# Troubleshooting is easy
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-13-683c4f01c807> in <module>
      3
      4 name = " The name of my python teacher "
----> 5 print("Hello!" , nam )

NameError: name 'nam' is not defined
```

In [ ]:

```

```

In [ ]:

```

```