Python Fundamentals

Input--Output Functions

Variables

Data Types

Operators

if else

while and for loop

Tuple,List and Dict

FUNCTIONS

---Reusable block of code in a program

---Building block of all programming language

Methods and Functions

Functions--Build-in(System-Defined) and Custom(User-defined)

def functionname():

block of code

def fun(parameters):

return values

--Variable args \*

---no of args(unlimited no of args ) is passed to a function

--function can be defined using var args

def fun1(x,y,z):

def fun2(i,j,k,l,m):

fun1(10,20,30)

fun2(1,2,3,4,5)

---------------------Modules------------------------------

OS---Folders and Files

Python----file1.py,file2.pyp----use import statement

In Other language--header files(include),namespace,packages

In python----modules can be implemented using import

Question and Answer:::

def f1():#function definition

pass

def f2():

print("inside function2")

def f3(x):

print("inside function3--",x)

print("Entry") #function call(buildin)

print(len("june"))#function call

f1() #function call(user-defined)

f2()

f2()

f3(100)

f3("july")

f3(False)

f3(12,13)#error

print("Exit")#function call

#function with default values

def f6(name,subject='English'):

print("Student Name--",name)

print("Course Name--",subject)

print("Entry")

f6("Praveen","Science")

print("---------")

f6("Rashi","Accounts")

print("---------")

f6("Gautham")#will take default args

print("Exit")

'''def mul(x,y):

print("MUl--",(x\*y))

def div(x,y):

print("DIV--",(x/y))

return x/y

print("Entry")

mul(12,15)

mul(55,4)

ans1=div(12,2)

ans2=div(44,5)

print("Answer1--",ans1)

print("Answer2--",ans2)

print("Answer3--",div(23,3))

#possible only for function with return type

print("Charat----",chr(66))

print("Exit")'''

def fun1(x):

x[1]=100

print(x[1])

print("Entry")

no=[5,10,15]

print(no[1])

fun1(no)

print(no[1])

print("Exit")

i=100

def fun1():

i=150

j=200

print(i,"--",j)

i=300

j=400

print(i,"--",j)

print("Entry")

print("I value---",i)#100

fun1()

print("I value---",i)#100

print("Exit")

#using \* in function

#variable args

#param array

def fun7(x,\*y):#x-first value y-tuple

print("first value--",x)

for y1 in y:

print("remaining value--",y1)

print("Entry")

fun7("red","green","blue")

print("--------")

fun7(1,2,3,4,5,6,7)

print("Exit")

#using \* in function

#variable args

#param array

def fun7(x,\*y):#x-first value y-tuple

print("first value--",x)

for y1 in y:

print("remaining value--",y1)

print("Entry")

fun7("red","green","blue")

print("--------")

fun7(1,2,3,4,5,6,7)

print("Exit")

---------------in different file and folder

def second():

print("inside second function")

def third():

print("inside Third Function")

def fourth():

print("inside Fourth Function")