**COMMAND LINE ARGUMENTS IN PYTHON**

**Command line arguments are those arguments, that are passed when python program runs.**

**Sytax:**

python <programe name> Command line arguments

**Example**

python myProgram.py 123 abc xyz

**The main usage of command line arguments are :**

1. **To Share the File Location which we pass in when the program is run instead of hard-coding a location inside our python script. We can pass in a file location as a command line argument.**
2. **Similarly a database name or a connection URL can be passed in using a command line argument or it could be a remote IP address to which we want to connect from within our python script and so on all these.**

**These values are passed by the python run time to our program through a list called argV. This list will contain all the arguments that are passed in and this list is inside the sys module in python.**

**To access the elements we can use the sys.argV were sys is model which in inbuild module and argV is the list which contains all the arguments.**

**For example, to access the first command line argument will use sys.argv[0].**

**To give the cmd line arguments in the Run Configuration (Eclipse IDE)**

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**Now apply and run the program :**

**Code**

import sys

lst=sys.argv

for i in lst:

print(i)

print(len(lst))

**Output**

C:\Users\kamal\OneDrive\Desktop\Python\Python Examples\commandlineargument\demo.py

Kamal

Augusta

Jerrick

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5 (including the program name)

**PYCHARM – ADD COMMAND LINE ARGUMENTS @ RUN 🡪 EDIT CONFIGURATION**

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**Output**

C:\Users\kamal\pythonlab\Scripts\python.exe C:\Users\kamal\PycharmProjects\pythonProjectdemo\demo.py 2710956S 4380838T

C:\Users\kamal\PycharmProjects\pythonProjectdemo\demo.py

2710956S

4380838T

3

Process finished with exit code 0

Since the parametes are not added in the Program Arguments (Eclipse IDE), the program below gets the error;

**Code**

import sys

lst=sys.argv

print(*"Product is "* , int(lst[1])\*int(lst[2]))

By default the command line arguments are string values, which we have to typecast if want a int or float variable..

**Output**

Traceback (most recent call last):

File "C:\Users\kamal\OneDrive\Desktop\Python\Python Examples\commandlineargument\product.py", line 3, in <module>

print("Product is " , lst[1]\*lst[2])

~~~^^^

IndexError: list index out of range

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**Output**

Product is 1875

**QUIZ**

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**ASSIGNMENT**

**Code**

import sys

lst=sys.argv

flag=True

openingBalance = float(lst[1])

while (flag==True):

trxn=int(input(*"Enter the Choice : 1: Balance, 2: Withdraw, 3: Deposit Cash, 4: Deposit Cheque, 5: Exit (Please enter the number) : "*))

if trxn == 1:

print(*"The balance amount is : "*, openingBalance)

elif (trxn == 2):

withDraw = float(input(*"The amount to be withdrawn : "*))

openingBalance = openingBalance - withDraw

print(*"The balance amount is : "*, openingBalance)

elif (trxn == 3):

cashDeposit = float(input(*"The amount to be Cash Deposit : "*))

openingBalance = openingBalance + cashDeposit

print(*"The balance amount is : "*, openingBalance)

elif (trxn == 4):

chequeNumber = int(input(*"The Cheque Number : "*))

chequeAmount = float(input(*"The Cheque Amount : "*))

chequeBank = input(*"The Cheque Bank : "*)

openingBalance = openingBalance + chequeAmount

print(*"The balance amount is : "*, openingBalance)

elif (trxn == 5):

flag=False

else:

contTrxn = input(*"Please Enter the option to continue (Y/N : "*)

if (contTrxn == *'Y'*):

flag=True

else:

flag=False

**Output**

Enter the Choice : 1: Balance, 2: Withdraw, 3: Deposit Cash, 4: Deposit Cheque, 5: Exit (Please enter the number) : 1

The balance amount is : 125000.0

Enter the Choice : 1: Balance, 2: Withdraw, 3: Deposit Cash, 4: Deposit Cheque, 5: Exit (Please enter the number) : 2

The amount to be withdrawn : 75000

The balance amount is : 50000.0

Enter the Choice : 1: Balance, 2: Withdraw, 3: Deposit Cash, 4: Deposit Cheque, 5: Exit (Please enter the number) : 3

The amount to be Cash Deposit : 125000

The balance amount is : 175000.0

Enter the Choice : 1: Balance, 2: Withdraw, 3: Deposit Cash, 4: Deposit Cheque, 5: Exit (Please enter the number) : 4

The Cheque Number : 124578

The Cheque Amount : 25000

The Cheque Bank : PTSB

The balance amount is : 200000.0

Enter the Choice : 1: Balance, 2: Withdraw, 3: Deposit Cash, 4: Deposit Cheque, 5: Exit (Please enter the number) : 5