Course Title: Python Basic

1. Variables

- Variable is a name defined by a programmer

- is as temporary data storage by which we carry data around

1. Data Types

Implicit data types(object)

- numbers ( int, float)

- string ( “hello”, ‘hello’)

- char ( ‘a’) => string is an array of characters

- Boolean (true,false)

Simple Calculations

Example 1

Num1= Input(“Enter Num1:”)

Num2= Input(“Enter Num2:”)

Ans = int(Num1 )+ int(Num2)

Print(“The answer is = “,Ans)

Console=>

The answer is = 2233

Str1=”hello”

Str2=”22”

Ans =str1 + str2

Print(“The answer is = “,Ans)

The answer is = hello22

Software is a set of instructions that tell a machine what to do.

A programmer is an instructor.

Python naming conventional rule

first\_num # good practice

num1 #good practice

x #bad practice

a #bad practice

1\_num #bad

@\_name #bad

Example 1

Console => screen ( phone, tv, computer, tablet)

print(“. Yoma Bank “)

print(“--------------------- “)

print(“[1] Open New Account “)

print(“[2] View Accounts “)

print(“[3] Deposit Fund “)

print(“[4] Withdraw “)

print(“-----------------------“)

Output:

Yoma Bank

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[1] Open New Account

[2] View Accounts

[3] Deposit Fund

[4] Withdaw

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Practice1.py

Menu

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[1] Add New Reservation

[2] Show Guest List

[3] Search Guest Info

[4] Delete Guest Info

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[5] Exit Program

Practice2.py

Divide Numbers

Enter Num1: 5

Enter Num2: 2

The answer is : 2.5

1. Conditional Statements

Note: there is no switch statement!

Syntax:

If condition:

Truth block

else:

False block

2:

If con1 and con2 and con3:

T block

else if con1 and con2 and con3:

T block

else:

F black

Example 1:

print(‘Algo1…’)

print(‘Find the largest number…’)

num1 = input(‘Enter Num1:’)

num2= input(‘Enter Num2:’)

num3=input(‘Enter Num3:’)

#algorithm (method for solution)

If num1> num2 and num1>num3:

L=num1

else if num2>num1 and num2>num3:

L=num2

else:

L=num3

print(‘The largest number is =’,L)

Example 2:

print(‘Algo2…’)

print(‘Find the largest number…’)

num1 = input(‘Enter Num1:’)

num2= input(‘Enter Num2:’)

num3=input(‘Enter Num3:’)

#algorithm (method for solution)

If num1> num2:

L=num1

else:

L=num2

If num3>L:

L=num3

print(‘The largest number is =’,L)

Example 3:

print(‘Algo3…’)

print(‘Find the largest number…’)

num1 = input(‘Enter Num1:’)

num2= input(‘Enter Num2:’)

num3=input(‘Enter Num3:’)

#algorithm (method for solution)

If num1> num2:

If num1>num3:

L=num1

else:

L=num3

else:

If num2>num3:

L=num2

else:

L=num3

print(‘The largest number is =’,L)

practice1.py

Enter Num1: 1

Enter Num2: 33

Enter Num3: 15

Enter Num4: 12

The largest Number is = 33

Practice2.py

Enter Num1: 11

Enter Num2: 33

Enter Num3: 155

Enter Num4: 12

Enter Num5: 2

The largest Number is = 155

1. Loops
2. List
3. Set
4. Turple
5. Dictionary
6. Method
7. Module (OOP)
8. File
9. Mini Project