Introduction to Python

→ Python is interpreted language.

3.x
```
print("Hello world");
```

2.x
```
print "Hello world"
```

print() in python

if we print()

→ we will get blank

```
print()
print()
```

---

coding exercise on print()

First program - python print function
It is declared like this :
print ('what to print')

```
print("First program - python print function")
print("It is declared like this :")
print("print('what to print')")
```

output:

First program - python print - function
It is declared like this :
print ('what to print')

→ If we want to write the single ~~dots~~

~~print("print('what to print')")~~

```
print("print('what to print')")
```

or

```
print('print("what to print")')
```

String Manipulation

```
Print("Hello world\n Hello wond\n Hello world")
```

```
Print ("Hello "+ "sir")
```

Output:-

Hellosir

```
Print("Hello"+ " sir")
```

Output:-

Hello sir

(or)

```
print("Hello"+ " "+"sir")
```

Output:-

Hello sir

→ \n → next line.

→ If we keep tab before print we will get Indentation Error

String Manipulation exercise

String ~~concatenation~~ concatenation is done with "+" sign

e.g. print ("Hello "+"Jenny")

New lines can be created with a backlash and n

source

```
print('string Manipulation exercise\n string Concatenat
    is done with "+" sign')
print('e.g. print ("Hello"+"jenny")\n New lines can be
    created with a backlash and n')
```

Input() function in python

- It is used to take input from user & by default it returns user input in the form of a string.

syntax:- input(prompt)
↳ prompt is optional.

prompt:- a string or a message to display before input.

e.g:- input ("what is your name ? ")

output:- What is your name ? → enter your name and press enter

What is your name ? Mahi ↵ Press enter.

→ This replacement is behind the scene process, it will not be visible on the screen.

example:-

print ("Hello " + input("what is your name?"))

Output :-

What is your name ? Mahi

Hello Mahi

work

Output:-

What is your name ? Mahi

Hey Mahi, How are you ?

Solution

```
Print("Hey" + " " + input("what is your name?") +
                    ", " + "How are you")
```

Python variables

=> variables are containes to store values

=> The values can be anything including numbers, string lists etc.

=> No need to declare variables before using them or no need to declare ~~thier~~ ~~data~~ type.

=> So we can say a variable is a gerento a memory location.

ex:
```
a = 1
b = "Mahi"
```
a & b are variables

Print(a) will print 1

Print(b) will print Mahi

eg.

```
name = "Mahi"
Print(name)
name = "suzi"
Print(name)
```
=>

output

Mahi

suzi

exercise 1 :-

Calculate length of any given name.

```
name = input ("What is your name?")
length = len (name)
print f (length)
```

Output :-

```
What is your name ? Mahi
4
```

Note =>

len() is a function to calculate length of any string