100 days of Python Programming

Day-1

1. Printing first program

print("Hello World!") -> Print anything inside the parentheses

print("Hello Ayyappan!..")
- printing Hello Ayyappan! -> keyword is **print**
- print is used to printing the data given by the user
- " " is used to remove unwanted spaces in strings

-> Use stackoverflow to get answer for any errors in your program

Errors
- Syntax Error
- Indentation Error

Challenge - 1
Write a program in main.py that prints the same notes from the previous lesson using what you have learnt about the Python print function.

Expected Output:
Day 1 - Python Print Function
 The function is declared like this:
print('what to print')

Answer:
print("Day 1 - Python Print Function")
print("The function is declared like this:")
print("print('what to print')")

2. String Manipulation

print("Hello World! \nHello world! ")

-> \n used to print the word 2 times without using print 2 times.

-> \n will used to separate two character in two lines

3. Concatenate

print("Hello" + "Ayyappan")

-> there is space between hello and ayyappan

<u>Adding space in 3 ways</u>

print("Hello" + " Ayyappan")   **or**

print("Hello " + "Ayyappan")   **or**

print("Hello" + " " + "Ayyappan")

Challenge-2   -> Debug the Code

print(Day 1 - String Manipulation")

print("String Concatenation is done with the "+" sign.")

  print('e.g. print("Hello " + "world")')

print(("New lines can be created with a backslash and n.")

Answer:

print("Day 1 - String Manipulation") # " is missing

print('String Concatenation is done with the "+" sign.') # use single quote to avoid error

print('e.g. print("Hello " + "world")') # avoid space at beginning (indentation error)

print("New lines can be created with a backslash and n.") # remove (at first.

4. Python Input Function

print("Hello " + input("What is your name?"))
-> getting input from a user

5. Comment
-> # is used to comment and python will not read the program you enter with #

Challenge-3

Write a program that prints the number of characters in a user's name.

Answer:

```
print(len("Ayyappan")) # or
print(len(input("What is your name? ")))
```

6. Python Variables

name = input("Enter your nice name here: ")
-> here name is a variable
print(name)

```
name = input("Enter your nice name here: ")
length=len(name)    # length is also a variable
print(length)
```

-> print text in next line \n
```
name = input("What is your name? ")
age = input("please enter your age: ")
print(name)
```

```
print(age)
print("Your name is: " + name + "\n" + "Your age is: " + age)
```

Challenge-4

Write a program that switches the values stored in the variables a and b. a=3,b=5 Output: a=5, b=3

Answer:

```
a = input("a: ")        -> get input from user
b = input("b: ")
c = a                   -> assign a value to new variable c
a = b                   -> assign b value to a
b = c                   -> assign c value to b
print("a: " + a)
print("b: " + b)
```

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Day-1 Practise Final Project

Band Name Generator

```
print("Welcome to the Band Name Generator.")
city_name = input("What's name of the city you grew up in?\n")
pet_name = input("What's your pet's name?\n")
print("your band name could be " + city_name + " " + pet_name)
```