Day1 notes

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String Concatenation

```
print("Hello world!\nsk" + " is great")

Sample fixed codes:
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.")
```

Notes:

Accidentally leaving spaces will led to indentation error

Syntax error: unexpected EOF while parsing → means that end of your source code was reached before all code blocks were executed

- comment in python

input() function

```
//it will prompt user for to give input
print("hello " + input("who are you? "))

o/p:
who are you? siva //user prompt it waits for us to give input          //get the input always in print function, don't use it as variable and try to print o/p in print
hello siva
```

```
#Write a program that prints the number of characters in a user's name. You might need to Google for a function that calculates the length of a string.

print(len(input("What is your name? ")))        # len() function calculates, no of characters in string

o/p:
What is your name? siva kumar
10
```

▼ variables

Use the proper names while declaring variables, code should be readable even after 12 months. Example: user_name, length_bucket_1. variables names can't start with numbers or "_".

```
#Write a program that switches the values stored in the variables a and b.
# 🔴 Don't change the code below 🔽
a = input("a: ")
b = input("b: ")
# 🔴 Don't change the code above 🔼

####################################
#Write your code below this line 🔽

temp = a                          #it will work for both strings and numbers
a = b
b = temp
#Write your code above this line 🔼

####################################

# 🔴 Don't change the code below 🔽
print("a: " + a)
print("b: " + b)

You can write in other way also:
a = a + b # a = 18, b = 7    #can't approachable for string values
b = a - b # a = 18, b = 11
a = a - b # a = 7,  b = 11
```

▼ Mini Project of Day 1

Recreate the Mini Band creator Project:

Output should be like below:

```
Welcome to the Band Name Generator.
What's the name of the city you grew up in?
coimbatore                    #input from user
What's your pet's name?       #prompts should come at new line
bhaishab                      #input from user
Your band name could be coimbatore bhaishab
```

Program for this output

```
print("Welcome to the Band Name Generator.")
city_name = input("What's the 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)
```