**Output Statement**

**06-03-2025**

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**Output Statement:**

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print()

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 -> To display anything on the screen we can use "print()".

Printing one value with one print():

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a = 102

b = 0b1101

c = 0xaf12

d = 1.23

e = 1.23 - 2.34j

f = True

print(a)

print(bin(b))

print(hex(c))

print(d)

print(e)

print(f)

Printing of a value along with some message:

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Syntax:

 print('message', value) # a value with a message

 or

 print("message1", val1, "message2", val2,...) # here more than one message and one value we can print using print()

 or

 print(value, "message")

a = 10

b = 20

c = a + b

print("The Value of a = ",a)

print('The Value of b = ',b)

print(a,'is the value for the variable a')

print("The sum of a and b is = ",c)

printing of more than one value using single print()

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Syntax:

 print(var1, var2, var3, var4, ....)

Note:

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-> every print() definition can display the output in the new line

-> if we can define more than one value using one print(), we can get the output within the same line.

**Q: Is it possible to print more than one value into multiple lines using single print()?**

Yes

we have escape sequence '\n'

Syntax:

 print(val1, '\n', val2, '\n',....)

-> there is one more escape sequence, '\t' (horizontal tab/tab space)

when we want to print all variable values within the same with the tab space, we can use '\t' within the print().

Syntax:

 print(val1, '\t', val2, '\t', ...)

a = 10

b = 0.001

c = 1-2j

d = True

print(a)

print(b)

print(c)

print(d)

print(a, b, c, d)

print(a,'\n',b,'\n',c,'\n',d)

print(a,'\t',b,'\t',c,'\t',d,'\n')

printing of multiple values and multiple messages using one print()

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Syntax:

 print('msg1', val1, 'msg2', val2, ...)

name = 'Sagar'

age = 26

location = 'Vizag'

maritalStatus = True

# Name of the candidate is Sagar his age is 26 from Vizag and the marital status is = True

print('Name of the candidate is = ',name,'he is',age,'years old he is from',location,'and his marital status is = ',maritalStatus)

using format specifier:

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Syntax:

 print('message1 %s messag2 %s message3 %s .....'%(val1, val2, val3,...))

name = 'Sagar'

age = 26

location = 'Vizag'

maritalStatus = True

# Name of the candidate is Sagar his age is 26 from Vizag and the marital status is = True

print("Hi %s, you are %s year's of old. You are from %s and your marital status is %s"%(name,age,location,maritalStatus))

print("Hi, Good morning %s"%(name))

format() function

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Syntax:

 print('msg1 {} msg2 {} msg3 {}....'.format(val1, val2, val3,...))

name = 'Sagar'

age = 26

location = 'Vizag'

maritalStatus = True

# Name of the candidate is Sagar his age is 26 from Vizag and the marital status is = True

print("My name is {}".format(name))

print("I am {} year's of old".format(age))

print("I am from {}".format(location))

print("And my marital status is {}".format(maritalStatus))

print("I am {}, I am {} year's of old, I am from {} and my marital status is {}".format(name, age, location, maritalStatus))