+ Code + Text

```
print("Welcome to python ")
```

```
Welcome to python
```

```
myNumber = 25
print(myNumber)
```

```
25
```

```
myNumber1 = 4.6
print(myNumber1)
```

```
4.6
```

```
myNumber2 = "hello"
print(myNumber2)
```

```
hello
```

```
a,b,c = "Blue","Orange","Red"
print(a,"\n",b,"\n",c)
```

```
Blue
 Orange
 Red
```

```
a=b=c="Orange"
print(a)
print(b)
print(c)
```

```
Orange
Orange
Orange
```

```
fruits = ["Apple","Orange","Gova"]
a,b,c = fruits
print(a,b,c,sep = "\n")
```

```
Apple
Orange
Gova
```

```
a = "Python is "
b = "awesome"
```

```
c = a+b
print(c)
```

```
a = 25
b = 14
c = a+b
print(c)
```

```
39
```

```
a = "Python"
b =25
c =a+b
print(c)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-36-fb0d34f8fad1> in <module>()
      1 a = "Python"
      2 b =25
----> 3 c =a+b
      4 print(c)

TypeError: can only concatenate str (not "int") to str
```

SEARCH STACK OVERFLOW

```
a = int(1)
b = int(4.2)
c = int("3")
print(a,"\n",b,"\n",c)

x = float(5)
y = float(5.5)
z = float("25")
print(x,"\n",y,"\n",z)

s = str(5)
d = str(5.5)
f = str("25")
print(s,"\n",d,"\n",f)
```

```
1
 4
 3
5.0
 5.5
 25.0
5
 5.5
 25
```

```
#import keyword
import math
print(math.factorial(10))

#from keyword
from math import factorial
print(factorial(10))
```

```
3628800
3628800
```

```
#arguments
#this type is used to add at the end of the line
#firsty eg for star
print("Gowsi",end='**')

#for joining two words using end argument
print("Gowsika",end='Sree')

#for leaving a space
print("Gowsika",end='\n')
print("Sree")

#arugument
#separating a space or adding spacial char
print('B','I','T',sep=" ")

#for date formate
print('01','12','2021',sep="-")

#for mail type,joining  two statements
print("Gowsika","gmail.com",sep="@")
```

```
Gowsi**GowsikaSreeGowsika
Sree
B I T
01-12-2021
Gowsika@gmail.com
```

```
name = input("what is your name : ")
print("hello",name)

college =input("which college are you studying :")
print(college,"ohh Great")
```

```
what is your name : zara
hello zara
```

```
which college are you studying :BIT
BIT ohh Great
```

```
num1 = int(input("enter any value :"))
num2 = int(input("enter another value :"))

num3 = num1 * num2
print("product of two numbers is:", num3)
```

```
enter any value :14
enter another value :25
product of two numbers is: 350
```

```
#importing "keyword" for keyword operator
import keyword

#printing all keywords at once using "kwlist()"
print("The list of keywords is :")
print(keyword.kwlist)
```

```
The list of keywords is :
['False', 'None', 'True', 'and', 'as', 'assert', 'async', 'await', 'break', 'class', 'c
```

```
#boolen value
print(False == 0)
print(True == 1)

print(True +True+True)
print(True+False+False)

print(None == 0)
print(None ==  [])
```

```
True
True
3
1
False
False
```

```
#deleting a variable
#using del keyword
my_variable = 55
my_variable2 = 66
del my_variable
del my_variable2
print(my_variable2)

#it will be deleted from memory
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-44-d795cd6b43bd> in <module>()
      5 del my_variable
      6 del my_variable2
----> 7 print(my_variable2)
      8
      9 #it will be deleted from memory

NameError: name 'my_variable2' is not defined
```

SEARCH STACK OVERFLOW

```
#multi line commands ,we can use triple quote
''' multiline commands
for example '''
```

```
' multiline commands\nfor example '
```

```
#python code to demonstrate variable assignment

num =int(input("Enter number :"))
print(num)

name =input("Enter name :")
print(name)

#printimng type og input value
print("type of number",type(num))
print("type of name",type(name))
```

```
Enter number :14
14
Enter name :ZAR
ZAR
type of number <class 'int'>
type of name <class 'str'>
```

```
#dot operator- split()
#it assigns the value in the order og input

x,y = input("Enter any two values:").split()
print("number given first :",x)
print("number given second :",y)
print()#this is to get a gap

#split based should be mentioned in split functions
#ed .split(",") when seperated by comma,the special character used should be mentioned inside
```

```
Enter any two values:14 25
```

```
number given first : 14
number given second : 25
```

```
#there are 7 type of operator
#arithmetic,comparision(condition),logical(and or not),bitwise(binary representation),assignm

#Arithmetic
a = 14
b = 25
c = 0

c = a+b
print("add :",c)

c = a-b
print("sub :",c)

c = a*b
print("multiple :",c)

c = a/b
print("division :",c)
c = a%b
print("remainder :",c)

c = a**b
print("power :",c)

c = b//a
print("rounding off",c)
```

```
add : 39
sub : -11
multiple : 350
division : 0.56
remainder : 14
power : 449987958058483731145152266 24
rounding off 1
```

```
#comparision operator

x = 25
y = 14
print('x>y :',x>y)
print("x<y :",x<y)
print("x==y",x==y)
print("x!=y :",x!=y)#not equal to
```

```
print("x>=y :",x>=y)
print("x<=y",x<=y)
```

```
x>y : True
x<y : False
x==y False
x!=y : True
x>=y : True
x<=y False
```

```
#logical operator
#and ,or ,not operators
#boolean value

#logical operator
x = True
y = False

print("x and y is", x and y)

print("x or y is",x or y)

print("x not y is ",not x)
```

```
x and y is False
x or y is True
x not y is  False
```

```
#bitwise opersator
#binary and,or,not,one's complement,binary right shift ,binary left shift

a = 60   #binary value = 0011 1100
b = 13   #binary value = 0000 1101
# and operator
print("Line 1 - ",a &b) #12 = 0000 1100

#binary or operator
print("Line 2 - ",a | b)#61 = 0011 1101

#binary not operator
print("Line 3 - ",a^b) #49 = 0011 0001

#binary one's copmplement
print("Line 4 - ",~a)#-61 = 1100 0011

#binary left shift
print("Line 5 -",a<< 2)# 240 = 1111 0000

#binary right shift
print("Line 6 -",a>> 2)#15 = 0000 1111
```

```
Line 1 -  12
Line 2 -  61
Line 3 -  49
Line 4 -  -61
Line 5 - 240
Line 6 - 15
```

```
#assinment operator
#assignment operator is = ,all the arithimentic operations will be combined with =

a = 14
b = 25
a+=b
print("Line 1 - ", a)
a-=b
print("Line 2 - ", a)
a*=b
print("Line 3 - ", a)
a/=b
print("Line 4 - ", a)
```

```
Line 1 -  39
Line 2 -  14
Line 3 -  350
Line 4 -  14.0
```

```
#membership operator
#in not in
#out is boolean
# don't put zero infront of a single digit

a = 14
b = 25
list = [25,8,3,14,7 ];
print(a in list)
print(b not in list)
a = 2
print(a in list)
```

```
True
False
False
```

```
#identity operator
#is is not
#comparision
#boolean values

a = 25
b = 25
```

```
print( a is b )
b = 14
print( a is b )
print(a is not b)
x2 = "Gowsi"
y2 = "Gowsi"
x3 = [25,14,17]
y3 = [25,14,17]
print(x2 is y2)
print(x3 is y3)#the output for list will always be false as the memory location is different
```

```
True
False
True
True
False
```

```
#assessment
name,domain= input("Enter your mail ID :").split('@')
print("name =",name)
print("domain=",domain)
```

```
Enter your mail ID :GOWSIKASREE.AD21@1074
name = GOWSIKASREE.AD21
domain= 1074
```

```
#conditional statement
#IF statement
#for checking true statement...it willl be executed if it is true

# if the number is positive ,we print an appropriate messaage

num = 14
if num > 0:
  print(num,"is a positive number.")
print("This is always printed.")

num = -25
if num >0:
  print(num,"it is a negative number.")
print("it is not")
```

```
14 is a positive number.
This is always printed.
it is not
```

```
#If and else condition
#only with if the condition should be printed

num = 25
```

```
if num >= 0:
  print("Positive or Zero")
else:
  print("Neegative number")


num = int(input("Enter your number:"))
if num %2==0:
  print("It's a even number")
else:
  print("odd number")

# is elif and else conditions
#we can use n num of elif contion within a if and else condition

num = int(input("Enter your number:"))
if num > 0:
  print("It is a positive number")
elif num == 0:
  print("It is a zero")
else:
  print("It's Negative")
```

```
Positive or Zero
Enter your number:14
It's a even number
Enter your number:25
It is a positive number
```

```
#question : 5% bonous if year of  year is greater tha 5 yrs

year_of_exp = int(input("Enter your year of experience:"))
salary = int(input("Enter your salary:"))

if year_of_exp >= 5:
  print(salary*0.05,"is your bonous ")
else:
  print("Your are not eligible for receiving bonous")
```

```
Enter your year of experience:6
Enter your salary:25000
1250.0 is your bonous
```

```
#QUESTION 2 :grade of student

name = input("Enter your name :")
math,science,social,English,Tamil = input("Enter your marks :").split(",")
maths = int(math)
sci = int(science)
```

```
total = math+science+social+English+Tamil
print(total)

if total > total*0.9:
  print("You have secured O grade")
elif total >= total*0.8:
  print("You have secuired A grade")
elif total >= total*0.7:
  print("You have secured B grade")
elif total >= total*0.6:
  print("You have secoured C grade")
else:
  print("You have secured F grade")
```

```
Enter your name :jkh
Enter your marks :20,5,485,745,54
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-65-57eda4696fe6> in <module>()
      3 name = input("Enter your name :")
      4 math,science,social,English,Tamil = input("Enter your marks
:").split(",")
----> 5 math,science,social,English,Tamil = int()
      6 total = math+science+social+English+Tamil
      7 print(total)

TypeError: cannot unpack non-iterable int object
```

SEARCH STACK OVERFLOW