```
print("week 04!")
week 04!
```

▼ In built Function

For example, sum(), range(), type() etc.

Creating Function

```
Structure of creating function:
def function_name(para1, para2):
function body here
return value
# Sum of two numbers using function
def sum(x, y):
  sumOfvalue = x + y
  return sumOfvalue
FinalvalueOfSum = sum(233000, 20000)
print(FinalvalueOfSum)
     253000
# Using function print add, subtract, division, and multiplication of two numbers in a program
## For sum value
def summation(x, y):
  sumOfvalue = x + y
  return sumOfvalue
## For sub value
def subtract(x, y):
  subOfvalue = x - y
  return subOfvalue
## For sub value
def division(x, y):
  div0fvalue = x / y
  return divOfvalue
## For sub value
def multip(x, y):
  mulOfvalue = x * y
  return mulOfvalue
```

```
FinalvalueOfSum = summation(12.5, 20)
print(FinalvalueOfSum)
FinalvalueOfSub = subtract(12.5, 20)
print(FinalvalueOfSub)
    32.5
     -7.5
Write a program of n even numbers using python function
# define the function
def evenNumbers(n):
 if n % 2 == 0:
   print("The number is even")
 else:
    print("The number is odd")
evenNumbers(15.5)
    The number is odd
Now, we want to solve sum of n numbers using python function ----> construction of function
# Name of the function is SUN_of_N_Numbers
def SUM_of_N_Numbers(n):
  sum_total = 0 # initial total sum
  for i in range(0, n+1):
    sum_total = sum_total + i
  return sum_total
# We want to take value from keyboard of n
n = int(input("Enter the n value: "))
print(n, "\n", type(n))
Final_SUM_of_N_Numbers = SUM_of_N_Numbers(n)
print("Our final results: ", Final_SUM_of_N_Numbers)
    Enter the n value: 40
    40
     <class 'int'>
    Our final results: 820
Now, we want to solve the area of a traingle, where x, y, z are the lengths. Find, area = base * height/2.
def area_value(base, height):
 area = (base * height)/2
  return area
final_area_of_traingle = area_value(3, 9)
print("The area of a triangle is :", final_area_of_traingle)
    The area of a triangle is : 13.5
# improve this program
def area_value(base, height):
 area = (base * height)/2
  return area
base = float(input("Input the base here:"))
print(base)
height = float(input("Input the height here:"))
print(height)
final_area_of_traingle = area_value(base, height)
print("The area of a triangle is :", final_area_of_traingle)
    Input the base here:3
    Input the height here:4
```