```
Defining a function
print("Peel off the bananas")
print("Add some milk to it")
print("Add some sugar")
print("Add some dry fruits")
print("Top up with ice cream")
Peel off the bananas
Add some milk to it
Add some sugar
Add some dry fruits
Top up with ice cream
print("Peel off the bananas")
print("Add some milk to it")
print("Add some sugar")
print("Add some dry fruits")
print("Top up with ice cream")
Peel off the bananas
Add some milk to it
Add some sugar
Add some dry fruits
Top up with ice cream
print("Peel off the bananas")
print("Add some milk to it")
print("Add some sugar")
print("Add some dry fruits")
print("Top up with ice cream")
Peel off the bananas
Add some milk to it
Add some sugar
Add some dry fruits
Top up with ice cream
def banana_shake():
    print("Peel off the bananas")
    print("Add some milk to it")
    print("Add some sugar")
    print("Add some dry fruits")
    print("Top up with ice cream")
banana shake()
Peel off the bananas
Add some milk to it
Add some sugar
Add some dry fruits
Top up with ice cream
```

```
banana_shake()
Peel off the bananas
Add some milk to it
Add some sugar
Add some dry fruits
Top up with ice cream
banana_shake()
Peel off the bananas
Add some milk to it
Add some sugar
Add some dry fruits
Top up with ice cream
def tea():
    print("Make it yourself")
tea()
tea()
tea()
for i in range(10):
    tea()
Make it yourself
for i in range (10):
    print(i)
0
1
2
3
4
5
6
7
8
9
```

Passing a parameter to the function

Do you want to make different functions for different fruit shakes? # fruit shake # fruit is a variable here and is known as parameter def fruit shake(fruit): print("Peel off the", fruit) print("Add some milk to it") print("Add some sugar") print("Add some dry fruits") print("Top up with ice cream") fruit shake("mango") Peel off the mango Add some milk to it Add some sugar Add some dry fruits Top up with ice cream fruit_shake("Orange") Peel off the Orange Add some milk to it Add some sugar Add some dry fruits Top up with ice cream

```
# intro
def intro(name):
    print("My name is", name)
intro("Rahul")
My name is Rahul
## propose
def propose(name):
    print("Hey i love you", name)
name = input()
propose(name)
 Emma Watson
Hey i love you Emma Watson
naam = "baby"
propose(naam) # same as propose("baby")
Hey i love you baby
Multiple paramaters
     Introduce your family
def family(father, mother, sibling):
    print("Name of father is", father)
```

print("Name of mother is", mother)
print("Name of sibling is", sibling)

family("papa", "mummy", "bhai")

```
Name of father is papa
Name of mother is mummy
Name of sibling is bhai

# Parameters are positional

family("harry", "hermoine", "james")

Name of father is harry
Name of mother is hermoine
Name of sibling is james

# Does position of parameters matter?

# family("James", "lilly")

# This will give me error as one parameter is missing
```

Docstrings

- Should I have Kept some Documentation?
- Tell me something about yourself please...

```
# add them

def add(a, b):
    a: Give value to a
    b: give value to b
    Note: Don't pass int and str at a time.
    print(a+b)

print(help(add))
```

```
Help on function add in module main :
add(a, b)
    a: Give value to a
    b: give value to b
    Note: Don't pass int and str at a time.
None
add(5, 6)
11
add("a", 5)
                                          Traceback (most recent call
TypeError
last)
/var/folders/zn/hkv6562d6 d30glfs8yc7690000gn/T/ipykernel 5187/252735
282.py in <module>
---> 1 add("a", 5)
/var/folders/zn/hkv6562d6 d30glfs8yc7690000gn/T/ipykernel 5187/200311
516.py in add(a, b)
     1 def add(a, b):
            print(a+b)
---> 2
TypeError: can only concatenate str (not "int") to str
print?
Docstring:
print(value, ..., sep=' ', end='\n', file=sys.stdout, flush=False)
Prints the values to a stream, or to sys.stdout by default.
Optional keyword arguments:
      a file-like object (stream); defaults to the current
sys.stdout.
      string inserted between values, default a space.
      string appended after the last value, default a newline.
end:
flush: whether to forcibly flush the stream.
           builtin function or method
Type:
def multiply(a, b):
    This is the docstring
    print(a*b)
print(help(multiply))
```

```
Help on function multiply in module __main__:
multiply(a, b)
    This is the docstring

None
multiply?
Signature: multiply(a, b)
Docstring: This is the docstring
File:
/var/folders/zn/hkv6562d6_d30glfs8yc76900000gn/T/ipykernel_5187/226779
5985.py
Type: function
```

Return a function

```
print function shows all the values that it prints but actually it doesnt give any value
# lets revisit print

type(print("rahul"))
rahul
NoneType

def square(a, b):
    print(a*a, b*b)

result = square(3, 4)
9 16
print(result)
None

# Can function flow go beyond return statement

def square(x):
    return x*x
```

```
result = square(3)
print(result)
9
def square(x):
    return x*x
a = square(3)
b = square(5)
print(a + b)
34
def square(x):
    print(x*x)
a = square(3)
b = square(5)
print(a + b)
25
                                           Traceback (most recent call
TypeError
last)
/var/folders/zn/hkv6562d6_d30glfs8yc7690000gn/T/ipykernel_5187/397880
5423.py in <module>
      5 b = square(5)
----> 7 print(a + b)
TypeError: unsupported operand type(s) for +: 'NoneType' and
'NoneType'
def abc():
    print("before return")
    return 1
    print("After return")
res = abc()
before return
print(res)
```

```
Some inbuilt functions
# Absolute function
print(-3)
- 3
print(abs(-234))
234
print(round(3.141))
3
print(round(3.14, 1))
3.1
print(round(3.14, 2))
3.14
print(round(3.141234124, 3))
3.141
Fahrenheit to celsius
\# c = (5/9) * (f-32)
def fahrenheit_to_celsius(f):
    c = (5/9) \overline{*} (\overline{f}-32)
    return round(c, 2)
fahrenheit_to_celsius(32)
0.0
fahrenheit_to_celsius(100)
37.78
```

```
## last quiz
def add_2_nums_with_return(n1, n2):
    return n1 + n2
y = add_2_nums_with_return(5, 6)
print(y)
11
def abc():
    return 2, 3, 4
res = abc()
res
(2, 3, 4)
def test(x, y, z):
    return x, y, z
res = test(2, 3, 4)
print(res)
(2, 3, 4)
```

Doubts