Simple Functions

Call functions with Arguments

passing argument to print()

In [1]:

```
student_age = 20
student_name = "aman Dubey"
print(student_name, 'will be in the class for ', student_age, ' year old st
udents.')
```

```
aman Dubey will be in the class for  20  year old students.
```

In [2]:

```
my_type = type(student_age)
```

In [4]:

```
print(my_type)
```

```
<class 'int'>
```

Simple functions

In [5]:

```
def say_hi():
        print("Hello there!")
        print("goodbye")
```

In [6]:

```
say_hi()
```

```
Hello there!
goodbye
```

In [7]:

```
def yell_it():
    yell_it = 'Hi there'
    print(yell_it.upper() + "!")
```

In [8]:

```
yell_it()
```

```
HI THERE!
```

Function parameter

In [13]:

```
def yell_this(words_to_yell = "Nothing is given as input"):
    print(words_to_yell.upper())

words_to_yell = input("enter words to yell:")
yell_this(words_to_yell)
yell_this()
```

```
enter words to yell:hello brother
HELLO BROTHER
NOTHING IS GIVEN AS INPUT
```

Function returns and multi-parameters

In [16]:

```
def make_doctor(name):
    return "Doctor " + name
full_name = input("enter doctors name:")
print(make_doctor(full_name))
```

```
enter doctors name:Mashoor Gulati
Doctor Mashoor Gulati
```

In [27]:

```
def make_schedule(period1, period2, period3, period4,period5,period6):
   schedule = ("[1st] " + period1.title() + "\n[2nd] " + period2.title() +"\
n[3rd] " + period3.title() +"\n[4th] " + period4.title() +"\n[5th] " + peri
od5.title() +"\n[6th] " + period6.title())
   return schedule
```

In [28]:

```
student_schedule = make_schedule("Mathematics", "Chemistry", "English", "So
cial Science", "Physics", "Biology")
```

In [29]:

```
print(student_schedule)
```

```
[1st] Mathematics
[2nd] Chemistry
[3rd] English
[4th] Social Science
[5th] Physics
[6th] Biology
```

In [30]:

```
def add_numbers(num_1, num_2 = 10):
    return num_1 + num_2
print(add_numbers(100))
```

Sequence

In [31]:

```
def how_many():
    requested = input("enter how many you want: ")
    return requested

# get the number_needed
number_needed = how_many()
print(number_needed, "will be ordered")
```

```
enter how many you want: 23
23 will be ordered
```

PRACTICE

In [32]:

```
def  short_rhyme():
    print("She sell sea shell\non the sea shore")
short_rhyme()
```

```
She sell sea shell
on the sea shore
```

In [33]:

```
def title_it(msg):
    print(msg.title())
```

In [37]:

```
title_it("never stop")
```

```
Never Stop
```

In [39]:

```
format_input = input("enter input:")
```

```
enter input:what is the title?
```

In [40]:

```
title_it(format_input)
```

```
What Is The Title?
```

In [41]:

```
def title_it_rtn(msg):
    return msg.title()
result = title_it_rtn(input("Enter input to make to title:"))
print(result)
```

```
Enter input to make to title:what is the title ?
```

```
What Is The Title ?
```

PROGRAM: BOOKSTORE

In [45]:

```
def bookstore(book, price):
    return "Title:" + title_it_rtn(book) + ", costs" + price
book_entry = input("enter the book name:")
price_entry= input("enter book price:")
print(bookstore(book_entry, price_entry))
```

```
enter the book name:the adventure of sherlock holmes
enter book price:$12.99
Title:The Adventure Of Sherlock Holmes, costs$12.99
```

In [46]:

```
def make_greeting(name, greeting = "Hello"):
    return (greeting + " " + name + "!")
def get_name():
    name_entry = input("enter a name: ")
    return name_entry

def get_greeting():
    greeting_entry = input("enter a greeting: ")
    return greeting_entry
# get name and greeting, send to make_greeting
print(make_greeting(get_name(), get_greeting()))
```

```
enter a name: Aman Dubey
enter a greeting: good luck
good luck Aman Dubey!
```

PROGRAM: fishstore

In [48]:

```
def fishstore(fish, price):
    return "Fish Type:" + fish + " costs " + price
fish_entry = input("enter the fish name:")
price_entry = input("enter the cost:")
print(fishstore(fish_entry, price_entry))
```

```
enter the fish name:Guppy
enter the cost:$1
Fish Type:Guppy costs $1
```