Assignment number 2 (intro to programming):

- 1. Write function pow() that calculates the power, which takes base and exponent as arguments.
- 2. Write function area() that calculates the area of the shape.
- 3. Write a program to find the sum of all numbers in a list.
- 4. Write a program to concatenate two tuples then get the max and min element.
- 5. Write a function that takes tuple as argument and if length of tuple greater than 5, return the count of number elements. Note that the tuple may be with different data types.
- 6. Write a function which will be able to print a index of list element without using index function.
- 7. Write a Python function that takes a number as a parameter and checks whether the number is prime or not.
- 8. Write a Python class Restaurant with attributes like menu_items, book_table, and customer_orders, and methods like add_item_to_menu, book_tables, and customer_order. (Note: Use dictionaries and lists to store the data.)

 Perform the following tasks now:
 - Now add items to the menu.
 - Make table reservations.
 - Take customer orders.
 - Print the menu.
 - Print table reservations.
 - Print customer orders.
- A Bike Rental System Let us start writing the class Customer that is composed of the following attributes:
 - name
 - age

Here are some of the methods that you need to add to your class Customer;

- def __init__(self).
- Getter / setter for all attributes.

class MainBikeRental that is composed of the following attributes:

- List of bikes
- List of Rentals

Here are some of the methods that you need to add to your class MainBikeRental;

- def __init__(self).
- Getter / setter for all attributes.

- requestBike: Takes a request from the customer for the number of bikes and check if
 the requested number is available or not if yes, function will deduct number_of_bikes
 from shop stock else it will print wait 10 mins. And you have to make sure that the age
 of the customer is over than 6 years.
- returnBike: Allows customers to return their bikes to the rental shop by taking rentalTime, num_of_bikes as parameters. And calculate the total bill cost by multiplying rentalTime * 40. Also, add the returned bikes to the stock store again
- addBike: adds bikes into the list
- totalCost: returns the total cost of bikes in the store

class Bike that is composed of the following attributes:

- name
- price

Here are some of the methods that you need to add to your class Bike;

- def __init__(self).
- Getter / setter for all attributes.