

## Practice 1

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### • 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.

class **electricBike** that is inherited from **Bike** and composed of the following attributes:

- maxspeed

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

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

class **normalBike** that is inherited from **Bike** and composed of the following attributes:

- maxspeed

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

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