**Assignment - 2**

1. Create Real Time Application of Inheritance with Abstract Class & Interface.
2. Create a class called &quot;Student&quot; that has the following properties: name (string)

id (integer)

courses (array)

* The class should also have the following methods:

\_\_construct() method that takes in the name and id of the student and sets them as properties of

the object.

addCourse() method that takes in a course name and adds it to the courses array.

removeCourse() method that takes in a course name and removes it from the courses array.

getCourses() method that returns an array of the students & courses.

1. Create a class called & BankAccount & that has the following properties:

accountNumber (string), balance (float)

* The class should also have the following methods:

\_\_construct() method that takes in the account number and balance of the bank account and sets them as properties of the object.

deposit() method that takes in a deposit amount and adds it to the balance.

withdraw() method that takes in a withdrawal amount and subtracts it from the balance.

getBalance() method that returns the current balance of the account.

1. Create a class called & Car& that has the following properties:

make (string),model (string),year (integer),price (float)

* The class should also have the following methods:

\_\_construct() method that takes in the make, model, year, and price of the car and sets them as properties of the object.

getMake() method that returns the make of the car.

getModel() method that returns the model of the car.

getYear() method that returns the year of the car.

getPrice() method that returns the price of the car.

* You can also add methods to calculate the depreciation of the car over time, or to determine the resale value based on the current market conditions.