Assignment -1

See the Following class notations for information about the classes:

Coordinate
double latitude
double longitude
setLatitude(double latitude)
setLongitude(double longitude)
double getLatitude( )
double getLongitude( )

Airport
int id
String name
Coordinate location
setId(int id)
setName(String name)
setLocation(Coordinate location)
int getId( )
String getName( )
Coordinate getLocation( )

Employee
String id
String name
String designation
setId(String id)
setName(String name)
setDesignation(String designation)
String getId( )
String getName( )
String getDesignation( )

Schedule
int hour
int minute
setHour(int hour)
setMinute(int minute)
int getHour( )
int getMinute( )

Flight
int id
String name
int capacity
Employee pilot
Airport from
Airport to
Schedule departure
Schedule arrival
setId(int id)
setName(String name)
setCapacity(int capacity)
setPilot(Employee pilot)
setFrom(Airport from)
setTo(Airport to)
setDeparture(Schedule departure)
setArrival(Schedule arrival)
int getId( )
String getName( )
int getCapacity( )
Employee getPilot( )
Airport getFrom( )
Airport getTo( )
Schedule getDeparture( )
Schedule getArrival( )

Instructions:

1. Write the above mentioned classes. All the member attributes and methods are mentioned in the class notation. All the attributes are private and methods are public. You do NOT need to write any extra attributes or methods. You do NOT even need to write Constructors.

2. Write a class **Start** that has the **main** method. Inside the main method create one object of the class Flight and demonstrate all the methods of class flight.

   Tips:

   You cannot create any objects of the class Flight unless you create objects of class Employee, Airport and Schedule. Also, to create objects of Airport you need to create object of Coordinate. So, follow the following class sequence to create objects:

   i.   2 objects of Coordinate class
   ii.   2 objects of Airport class
   iii.   1 object of Employee class
   iv.   2 objects of Schedule class
   v.   1 object of Flight class

   Now set the attributes of flight class using the objects of other classes and show the output using the object and get methods of the flight class.

Assignment -1

Sample Output:

```
Flight ID                 :  707
Flight Name               :  OOP1MTAssignment
Flight Capacity           :  60
Pilot Name                :  Tony Stark
Pilot ID                  :  AVNGR002
Pilot Designation         :  Senior Pilot
Airport From Name         :  NYC Airport
Airport From ID           :  701
Airport From Longitude    :  23.69
Airport From Latitude     :  72.58
Airport To Name           :  LA Airport
Airport To ID             :  901
Airport To Longitude      :  73.18
Airport to Latitude       :  35.63
Scheduled Departure at    :  08:15
Scheduled Arrival at      :  10:20
```

Submission Guidelines:

1. Put all the .java files in a folder.
2. Zip the folder.
3. Rename Your Zipped folder after your ID.
   For Example: If your ID is 12-21219-2 then,
   Your zipped folder should be renamed as 12-21219-2_MT_A1
4. Upload the renamed Zipped Folder.
5. Submission Deadline is: Wednesday, July 18, 2018, End of Lab.
6. Please Note that you will have to attend a viva for this assignment.
7. Viva Deadline is: Thursday, March 22, 2018, 4:00PM.
8. The Assignment is for 10 Marks. Failing to attend the viva will result into a zero (0) for this assignment.