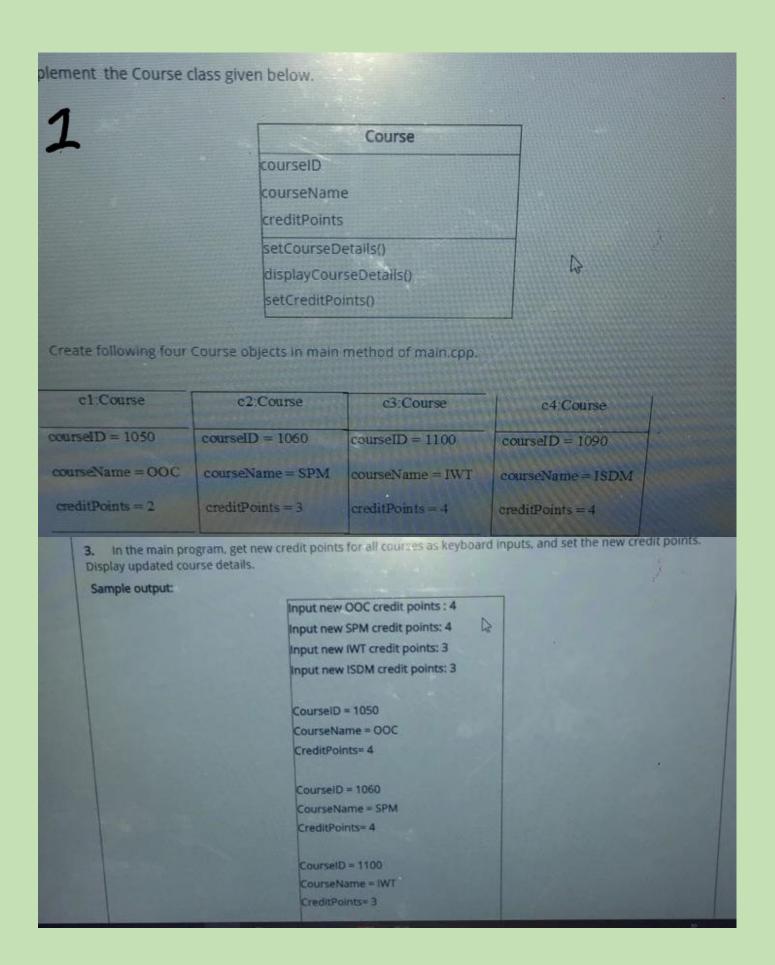
Course



```
#include <iostream>
using namespace std;
class Course{
        private:
                int courseID;
                string courseName;
                int creditPoints;
        public:
                void setCourseDetails(int cid, string cname, int cpt);
                void displayCourseDetails();
                void setCreditPoints();
};
void Course::setCourseDetails(int cid, string cname, int cpt)
{
        courseID = cid;
        courseName = cname;
        creditPoints = cpt;
}
void Course::displayCourseDetails()
{
        cout << "Course ID = " << courseID << endl
                 << "CourseName = " << courseName << endl
                 << "CreditPoint = " << creditPoints << endl<<endl;
}
void Course::setCreditPoints()
{
        cout << "Input new "<< courseName <<" credit points : ";</pre>
        cin >> creditPoints;
```

```
}
int main ()
{
        Course c1,c2,c3,c4;
        c1.setCourseDetails(1050,"OOC",2);
        c2.setCourseDetails(1060,"SPM",3);
        c3.setCourseDetails(1100,"IWT",4);
        c4.setCourseDetails(1090,"ISDM",4);
        c1.setCreditPoints();
        c2.setCreditPoints();
        c3.setCreditPoints();
        c4.setCreditPoints();
        cout<<endl;
        c1.displayCourseDetails();
        c2.displayCourseDetails();
        c3.displayCourseDetails();
        c4.displayCourseDetails();
        return 0;
}
```

Event

1. Implement the Event class given below.



Event	
eventId	
eventType	
themeColor	
location	
setEventDetails()	
displayEventDetails()	
setEventLocation()	

2. Create following three Event objects using Dynamic Memory Allocation in main method of main.cpp.

e1:Event	e2:Event
eventId = 1	eventId = 2
eventType = party	eventType = wedding
themeColor = red	themeColor = purple
location = Nugegoda	location = Maharagama

e3:Event
eventId = 3
eventType = party
themeColor = pink
location = Malabe

3. In the main program, get new event locations for all events as keyboard inputs, and set the new locations. Display updated event details.

Sample output:

Input new location of event 1: Malabe
Input new location of event 2: Kelaniya
Input new location of event 3: Galle

EventType = party
ThemeColor = red
Location = Malabe

EventType = wedding
ThemeColor = purple
Location = Kelaniya

EventType = party
ThemeColor = pink
Location = Galle

```
#include <iostream>
using namespace std;
class Event{
        private:
                int eventId;
                string eventType;
                string themeColor;
                string location;
        public:
                void setEventDetails(int eid, string etyp, string tcolr, string eloc);
                void displayEventDetails();
                void setEventLocation();
};
void Event::setEventDetails(int eid, string etyp, string tcolr, string eloc)
{
        eventId = eid;
        eventType = etyp;
        themeColor = tcolr;
        location = eloc;
}
void Event::displayEventDetails()
{
        cout << "EventType = " <<eventType<<endI</pre>
                 << "ThemeColor = " << themeColor << endl
                 << "Location = " <<location << endl <<endl;
}
void Event::setEventLocation()
```

```
{
        cout << "Input new location of event " << eventId <<" : ";</pre>
        cin >> location;
}
int main ()
{
        Event *e1 = new Event();
        Event *e2 = new Event();
        Event *e3 = new Event();
        e1->setEventDetails(1,"party","red","Nugegoda");
        e2->setEventDetails(2,"wedding","purple","Maharagama");
        e3->setEventDetails(3,"party","pink","Malabe");
        e1->setEventLocation();
        e2->setEventLocation();
        e3->setEventLocation();
        cout<<endl;
        e1->displayEventDetails();
        e2->displayEventDetails();
        e3->displayEventDetails();
        delete e1;
        delete e2;
        delete e3;
        return 0;
}
```

Patient

1. Implement Patient.h and Patient.cpp for the Patient class given below.

Patient	
appointmentID	
patientName	
doctorCharge	
hospitalCharge	
setPatientDetails()	
displayPatientDetails()	
setdoctorCharge()	
sethospitalCharge()	
calculateTotalPayment()	

Hint: calculateTotalPaymen() method is to calculate the Total bill payment (doctorCharge+ hospitalCharge) of an patient.

2. Create following two Patient objects in main method of main.cpp.

p1: Patient	t
appointme	entID = 1001
patientNa	me = Nimal
doctorCha	arge = 1500
hospitalCh	narge = 500

p2: Patient	
appointmentII	0 = 1002
patientName =	= Sunil
doctorCharge	= 1700
hospitalCharg	e = 500

3. In the main program, get the Total bill payment of both patients using calculateTotalPayment() method, and display the Total payment of each patient with appointmentiD and patientName.

Sample output:

AppointmentID = 1001
Patient Name = Nimal
Total Payment = 2000

Appointment ID = 1002
Patient Name = Sunil
Total Payment = 2200

Marking Scheme

Compile correctly	1.0
Execute correctly	2.0
Declaring the class definition correctly	4.0
Implementing the class methods correctly	7.0
In client program	
Creating objects correctly	2.0
Calling methods correctly	2.0
Correct calculation	2.0

Important: Please save your program (main program or the zip file) with your IT number and paper version. eg: ITXXXXXXX_F.cpp Include your IT number, name and paper version (mentioned above) as comments in your program.

```
#include <iostream>
using namespace std;
class Patient {
    private:
        int appoinmentID;
        string patientName;
        float doctorCharge;
        float hospitalCharge;
    public:
      void setpatientDetaile (int pld, string pname);
        void displayPatientDetails ();
        void setDoctorCharge (float dCharge);
        void setHospitalCharge (float hcharge);
        float calculateTolatPayment ();
};
void Patient::setpatientDetaile(int pID, string pname)
{
    appoinmentID = pID;
    patientName = pname;
}
void Patient::setDoctorCharge(float dCharge)
{
    doctorCharge = dCharge;
}
void Patient::setHospitalCharge(float hcharge)
{
    hospitalCharge = hcharge;
}
```

```
void Patient::displayPatientDetails()
{
    cout << "Appoinment ID = " << appoinmentID << endl</pre>
        << "Patient Name = " << patientName << endl;
}
float Patient::calculateTolatPayment()
{
    return doctorCharge + hospitalCharge;
}
int main ()
{
    Patient p1,p2;
    p1.setpatientDetaile(1001,"Nimal");
    p1.setDoctorCharge(1500);
    p1.setHospitalCharge(500);
    p2.setpatientDetaile(1002,"Sunil");
    p2.setDoctorCharge(1700);
    p2.setHospitalCharge(500);
    p1.displayPatientDetails();
    cout << "Total Payment = " << p1.calculateTolatPayment() << endl << endl;</pre>
    p2.displayPatientDetails();
    cout << "Total Payment = " << p2.calculateTolatPayment() << endl;</pre>
    return 0;
}
```

Taxi

1

Taxi		
taxiID		
driver		
ratePerKM		
distanceTravelled		
setTaxiDetails()		
displayTaxiDetails()		
calculateBill()	*	

Hint: calculateBill() method is to calculate the bill of a ride (ratePerKM * distanceTravelled).

2. Create following Taxi objects in main method of main.cpp.

t1:Taxi	t2:Taxi	t3:Taxi
taxiID = 1234	taxiID = 4321	taxiID = 3434
driver = Ben	driver = Chris	driver = Nick
ratePerKM = 150	ratePerKM = 250	ratePerKM = 175
distanceTravelled = 10	distanceTravelled = 4	distanceTravelled = 2

3. In the main program, calculate the bill of all taxis using calculateBill()method, and display the total bill of each taxi with taxilD and driver.

Sample output:

Taxi ID = 1234

Driver Name = Ben

BillAmount = 1500

Taxi ID = 4321

Driver Name = Chris

BillAmount = 1000

Taxi ID = 3434

Driver Name = Nick

BillAmount = 350

Marking Scheme

Compile correctly	1.0
Execute correctly	2.0
Declaring the class definition correctly	4.0
Implemention the elect methods correctly	7.0

```
#include <iostream>
#include <iostream>
using namespace std;
class Taxi{
    private:
        int taxiID;
        string driver;
        int ratePerKM;
        int distanceTravelled;
    public:
        void setTaxiDetails(int id, string name, int rate, int dist);
        void displayTaxiDetails();
        float calculateBill();
};
void Taxi::setTaxiDetails(int id, string name, int rate, int dist)
{
   taxiID = id;
    driver = name;
    ratePerKM = rate;
    distanceTravelled = dist;
}
void Taxi::displayTaxiDetails()
{
    cout <<"Taxi ID = " << taxiID << endl
         <<"Driver Name = " << driver << endl;
}
float Taxi::calculateBill()
{
```

```
return ratePerKM*distanceTravelled;
}
int main ()
{
    Taxi t1,t2,t3;
    t1.setTaxiDetails(1234,"Ben",150,10);
    t2.setTaxiDetails(4321,"Chris",250,4);
    t3.setTaxiDetails(3434,"Nick",175,2);
    t1.displayTaxiDetails();
    cout <<"BillAmount = " << t1.calculateBill() <<endl<<endl;</pre>
    t2.displayTaxiDetails();
    cout <<"BillAmount = " << t2.calculateBill() <<endl<<endl;</pre>
    t3.displayTaxiDetails();
    cout <<"BillAmount = " << t3.calculateBill() <<endl;</pre>
    return 0;
}
```

Salesman

VERSION-U

1. Implement Salesman.h and Salesman.cpp for the Salesman class given below.

Salesman	
salesmanid	
salesmanName	
salary	
contactNo	
setSalesmanDetails()	
displaySalesmanDetails()	
setSalesmanContactNo()	

2. Create following Salesman objects using Dynamic Memory Allocation in main method of main.cpp.

s1: Salesman	s2: Salesman
salesmanId = 1	salesmanId = 2
salesmanName = John	salesmanName = Ann
salary = 30000	salary = 40000
contactNo = 772358375	contactNo = 773029452

s3: Salesman salesmanId = 3 salesmanName = Leema salary = 35000 contactNo = 778294526

3. In the main program, get new contact numbers for all salesmen as keyboard inputs, and set the new contact numbers. Display updated salesmandetails.

Sample output:

Input new contact number of salesman 1 : 772461836
Input new contact number of salesman 2 : 773927452
Input new contact number of salesman 3 : 772037452

SalesmanId = 1
SalesmanName = John
Salary = 30000
ContactNo = 772461836

SalesmanName = Ann
Salary = 40000
ContactNo = 773927452

SalesmanId = 3
SalesmanName = Leema
Salary = 35000
ContactNo = 772037452

2

```
#include <iostream>
using namespace std;
class Salesman{
        private:
               int salesmanID;
               string salesmanName;
               float salary;
               int contactNo;
        public:
               void setSalesmanDetails(int sid, string name, float sal, int cNo);
               void displaySalesmanDetails();
               void setSalesmanContactNo();
};
void Salesman::setSalesmanDetails(int sid, string name, float sal, int cNo)
{
       salesmanID = sid;
       salesmanName = name;
       salary = sal;
       contactNo = cNo;
}
void Salesman::displaySalesmanDetails()
{
        cout << "SalesmanId = " << salesmanID << endl</pre>
                << "SalesmanName = " << salesmanName << endl
                << "salary = " << salary << endl
                << "ContactNo = " << contactNo << endl<<endl;
}
```

void Salesman::setSalesmanContactNo()

```
{
       cout<<"Input new contact number of salesman "<< salesmanID << " : ";</pre>
       cin>>contactNo;
}
int main ()
{
       Salesman *s1 = new Salesman();
       Salesman *s2 = new Salesman();
       Salesman *s3 = new Salesman();
       s1->setSalesmanDetails(1,"John",30000,772358375);
       s2->setSalesmanDetails(2,"Ann",40000,773029452);
       s3->setSalesmanDetails(3,"Leema",35000,778294526);
       s1->setSalesmanContactNo();
       s2->setSalesmanContactNo();
       s3->setSalesmanContactNo();
       cout<<endl;
       s1->displaySalesmanDetails();
       s2->displaySalesmanDetails();
       s3->displaySalesmanDetails();
       delete s1,s2,s3;
       return 0;
}
```

Doctor

Version L

1. Implement the Doctor class given below.

Doctor
doctorID
doctorName
specialization
hospital
setDoctorDetails()
displayDoctorDetails()
getSpecialization()

2. Create following Doctor objects in main method of main.cpp.

d1:Doctor	d2:Doctor
doctorID =1	doctorID = 2
doctorName = Dr. Sunil	doctorName = Dr. Yasantha
specialization = Neurologist	specialization = Oncologist

3. In the main program, get new hospital for all courses as keyboard inputs, and set the new hospitals. Display updated doctor details.

Sample output:

Input new hospital of doctor 1 : Nawaloka
Input new hospital of doctor 2 : Central
Input new hospital of doctor 3 : Delmon

DoctorID =1
DoctorName = Dr. Sunil
Specialization = Neurologist
Hospital = Nawaloka

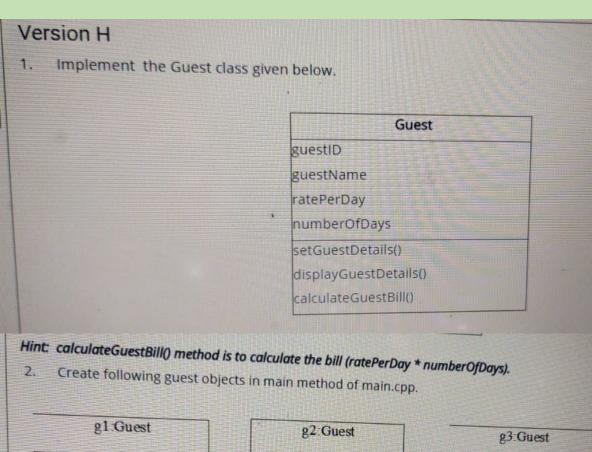
DoctorID = 2
DoctorName = Dr. Yasantha
Specialization = Oncologist
Hospital = Central

DoctorID = 3
DoctorName = Dr. Godvin
Specialization = Cardiologist
Hospital = Delmon

```
#include <iostream>
using namespace std;
//Class Definition
class Doctor {
 private:
  int doctorID;
  string doctorName;
  string specialization;
  string hospital;
 public:
  void setDoctorDetails(int dID, string dName, string dSpec, string dHospital);
  void displayDoctorDetails();
  string getSpecialization();
  void setHospital();
};
//Methods Implementation
void Doctor::setDoctorDetails(int dID, string dName, string dSpec, string dHospital){
  doctorID = dID;
  doctorName = dName;
  specialization = dSpec;
  hospital = dHospital;
}
void Doctor::displayDoctorDetails(){
 cout << "DoctorID = " << doctorID << endl;</pre>
 cout << "DoctorName = " << doctorName << endl;</pre>
 cout << "Specialization = " << specialization << endl;</pre>
 cout << "Hostpital = " << hospital << endl;</pre>
 cout << endl;
```

```
}
string Doctor::getSpecialization()
{
 return specialization;
}
void Doctor::setHospital()
{
 cout << "Input new hostpital of doctor " << doctorID << " : ";</pre>
 cin >> hospital;
}
int main() {
 Doctor d1,d2,d3;
 //Create Objects
 d1.setDoctorDetails(1, "Dr. Sunil", "Neurologist", "Asiri");
 d2.setDoctorDetails(2, "Dr. Yasantha", "Oncologist", "Lanka");
 d3.setDoctorDetails(3, "Mr.Godvin", "Cardiologist", "CCC");
 //Set New hospitals for doctors
 d1.setHospital();
 d2.setHospital();
 d3.setHospital();
 cout << endl;
 //Display Doctor Details
 d1.displayDoctorDetails();
 d2.displayDoctorDetails();
 d3.displayDoctorDetails();
 return 0;
}
```

Guest



guestID = 1212
guestName = Jared
ratePerDay = 4500
numberOfDays = 4

	g.	2:Guest	
gı	ıestID =	= 1122	
gı	ıestNan	ne = Ben	
ra	tePerDa	ay = 3000	
nı	ımberO	fDays = 3	

	g3:Gu	est	
guestID	= 123	4	
guestNa	ne = F	Ruby	
ratePerD	ay = 5	750	
numberC	fDays	=2	

D

3. In the main program, calculate the bill of all guests using calculateGuestBill()method, and display the total bill of each guest with guestID and guestName.

Sample output:



```
#include <iostream>
using namespace std;
class Guest{
        private:
               int guestID;
               string guestName;
               int ratePerDays;
               int numberOfDays;
        public:
               void setGuestDetails(int id, string name , int rate, int days);
               void displayGuestDetails();
               int calculateGuestBill();
};
void Guest::setGuestDetails(int id, string name, int rate, int days)
{
       guestID = id;
       guestName = name;
        ratePerDays = rate;
        numberOfDays = days;
}
void Guest::displayGuestDetails()
{
       cout << "Guest ID = " << guestID << endl
                << "Guest Name = " << guestName << endl;
}
int Guest::calculateGuestBill()
{
        return ratePerDays*numberOfDays;
}
```

```
int main ()
{
    Guest g1,g2,g3;

    g1.setGuestDetails(1212,"Jared",4500,4);
    g2.setGuestDetails(1122,"Ben",3000,3);
    g3.setGuestDetails(1234,"Ruby",5750,2);

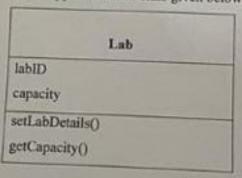
g1.displayGuestDetails();
    cout<<"BillAmount = "<<g1.calculateGuestBill()<<endl<<endl;
    g2.displayGuestDetails();
    cout<<"BillAmount = "<<g2.calculateGuestBill()<<endl<<endl;
    g3.displayGuestDetails();
    cout<<"BillAmount = "<<g3.calculateGuestBill()<<endl;
    return 0;
}</pre>
```

Lab

ues		

Create a project from your registration number and create Lab.h, Lab.cpp and main.cpp files in that project.

1. Implement Lab.h and Lab.cpp for the Lab class given below.



Ž,	Create fo	ollowing	three	Lab obia	ects in	main	mothest	of main and	
			1100.00	moreon water by	DESCRIPTION OF THE PERSON OF T	mann	DESCRIPTION D.	CAT TRAINABLE STATE	40

II:Lab
IabID = 401
capacity = 60

labID = 402 capacity = 40 L3:Lab labID = 403 capacity = 30 Semester 2, 2020

 In the main program, get the capacity as a keyboard input. Check the capacity and display lab id of a suitable lab.

Hint: Inputted Capacity <= Lab Capacity

Sample output:

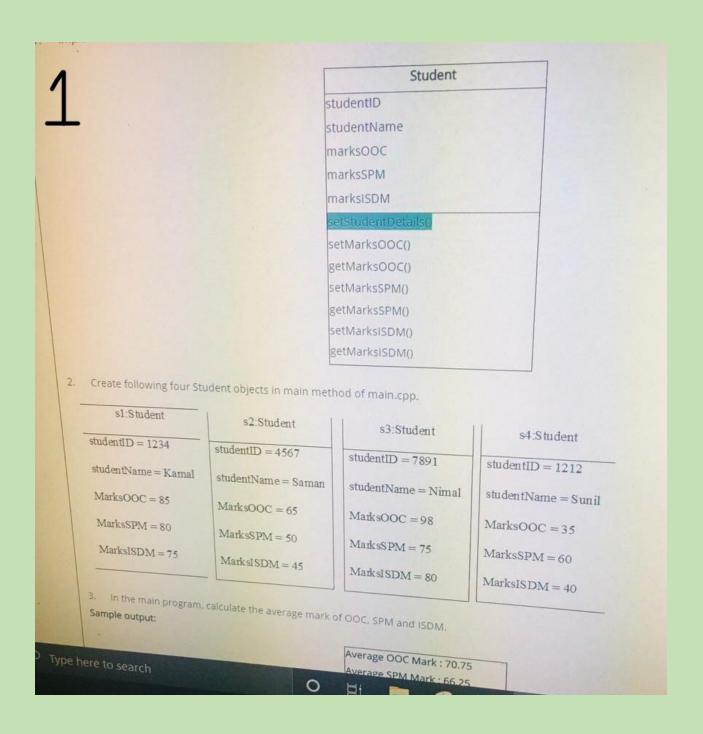
Insert capacity : 50 Lab 401

Grading Sheet

Compile correctly	1.0
Execute correctly	2.0
Declaring the class definition correctly	2.0
	4.0
Implementing the class methods correctly	4.0
n client program	7.0
Creating objects correctly	3.0
Calling methods correctly	3.0
	3.0
Correct calculation	3.0
	3.0

```
#include <iostream>
using namespace std;
class Lab{
        private:
                int labID;
                int capacity;
        public:
                void setLabDetails(int id, int capt);
                int getCapacity();
};
void Lab::setLabDetails(int id, int capt)
{
        labID = id;
        capacity = capt;
}
int Lab::getCapacity()
{
        return capacity;
}
int main ()
{
        Lab |1,|2,|3;
        l1.setLabDetails(401,60);
        l2.setLabDetails(402,40);
        I3.setLabDetails(403,30);
        int ncapt;
        cout <<"Insert Capacity : ";</pre>
```

Student



```
#include <iostream>
using namespace std;
class Student{
       private:
               int studentID;
               string studentName;
               int marksOOC;
               int marksSPM;
               int marksISDM;
       public:
               void setStudentDetails(int sid, string sname);
               void setMarksOOC(int ooc);
               int getMarksOOC();
               void setMarksSPM(int spm);
               int getMarksSPM();
               void setMarksISDM(int isdm);
               int getMarksISDM();
};
void Student::setStudentDetails(int sid, string sname)
{
       studentID = sid;
       studentName = sname;
}
void Student::setMarksOOC(int ooc)
{
       marksOOC = ooc;
}
int Student::getMarksOOC()
{
```

```
return marksOOC;
}
void Student::setMarksSPM(int spm)
{
       marksSPM = spm;
}
int Student::getMarksSPM()
{
       return marksSPM;
}
void Student::setMarksISDM(int isdm)
{
       marksISDM = isdm;
}
int Student::getMarksISDM()
{
       return marksISDM;
}
int main()
{
       Student s1,s2,s3,s4;
       s1.setStudentDetails(1234,"Kamal");
       s1.setMarksOOC(85);
       s1.setMarksSPM(80);
       s1.setMarksISDM(75);
       s2.setStudentDetails(4567,"Saman");
       s2.setMarksOOC(65);
```

```
s2.setMarksSPM(50);
        s2.setMarksISDM(45);
        s3.setStudentDetails(7891,"Nimal");
        s3.setMarksOOC(98);
       s3.setMarksSPM(75);
        s3.setMarksISDM(80);
        s4.setStudentDetails(1212,"Sunil");
        s4.setMarksOOC(35);
        s4.setMarksSPM(60);
        s4.setMarksISDM(40);
        float avgOOC,avgSPM,avgISDM;
        avgOOC = (s1.getMarksOOC() + s2.getMarksOOC() + s3.getMarksOOC() + s4.getMarksOOC())/4.0;\\
        avgSPM = (s1.getMarksSPM()+s2.getMarksSPM()+s3.getMarksSPM()+s4.getMarksSPM())/4.0;
        avgISDM = (s1.getMarksISDM() + s2.getMarksISDM() + s3.getMarksISDM() + s4.getMarksISDM()) / 4.0; \\
        cout << "Average OOC mark : " << avgOOC << endl;</pre>
        cout << "Average SPM mark : " << avgSPM << endl;</pre>
        cout << "Average ISDM mark : " << avgISDM << endl;</pre>
        return 0;
}
```

Plane

\ 1					
\ <i>I</i>	OI	si	-	2	
v			uo,		14-
-	~ 1	-			•

Implement the Plane class given below.

Plane
planeID
piolet
destination
setPlaneDetails()
displayPlaneDetails()
getDestination()

2. Create following plane objects in main method of main.cpp

p1:Plane p2:Plane

planeID = 1 planeID = 2

piolet = John piolet = George

destination = USA destination = UK

p3:Plane

p4:Plane

planeID = 3

planeID = 4

piolet = Henry

destination = USA

p3:Plane

p4:Plane

pade planeID = 4

piolet = Ronald

destination = UAE

3. In the main program, get new pilot names for all planes as keyboard inputs, and set the new pilot names. Display updated plane details.

Sample output:

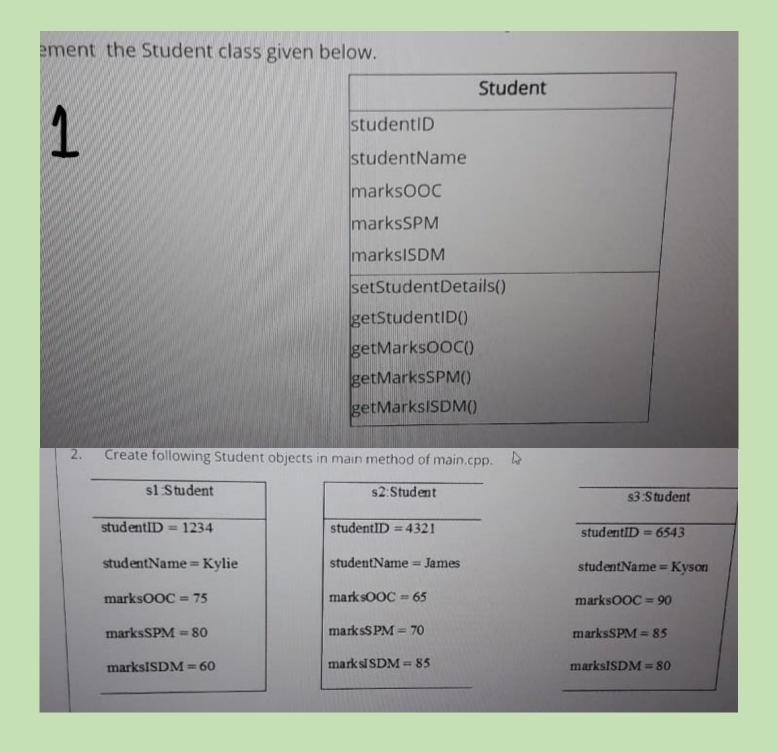
Input new pilot of plane 1: Bryan Input new pilot of plane 2: Smith Input new pilot of plane 3: Andrew Input new pilot of plane 4: Jacob PlaneID = 1 piolet = Bryan destination = USA PlaneID = 2 piolet = Smith destination = UK PlaneID = 3 piolet = Andrew destination = USA PlaneID = 4 piolet = Jacob destination = UAE

Do

```
#include <iostream>
using namespace std;
class Plane {
        private:
                int planeID;
                string piolet;
                string destination;
        public:
                void setPlaneDetails(int pID, string pname, string pdest);
                void displayPlaneDetails();
                void getPioletName();
};
void Plane::setPlaneDetails(int pID, string pname, string pdest)
{
        planeID = pID;
        piolet = pname;
        destination = pdest;
}
void Plane::displayPlaneDetails()
{
        cout << "Plane ID = " << planeID << endl
                 << "Piolet = " << piolet << endl
                 << "Destination = " << destination <<endl<<endl;
}
void Plane::getPioletName()
{
        cout << "Input new pilot of plane " << planeID <<" : ";</pre>
        cin >> piolet;
```

```
}
int main ()
{
        Plane p1,p2,p3,p4;
        p1.setPlaneDetails(1,"John","USA");
        p2.setPlaneDetails(2,"George","UK");
        p3.setPlaneDetails(3,"Henry","USA");
        p4.setPlaneDetails(4,"Ronald","UAE");
        p1.getPioletName();
        p2.getPioletName();
        p3.getPioletName();
        p4.getPioletName();
        cout<<endl;
        p1.displayPlaneDetails();
        p2.displayPlaneDetails();
        p3.displayPlaneDetails();
        p4.displayPlaneDetails();
        return 0;
}
```

Student



3

StudentID = 1234

StudentName = Kylie

MarksOOC = 75

MarksSPM = 80

MarksISDM = 60

Total Marks = 215

Average Mark = 71.67

2

StudentID = 4321

StudentName = James

Marks OOC = 65

Marks SPM = 70

Marks ISDM = 85

Total Marks = 220

Average Mark = 73.33

StudentID = 6543

StudentName = Kyson

MarksOOC = 90

Marks SPM = 85

Marks ISDM = 80

Total Marks = 255

Average Mark = 85

```
#include <iostream>
#include <iomanip>
using namespace std;
class Student{
        private:
               int studentID;
               string studentName;
               int marksOOC;
               int marksSPM;
               int marksISDM;
        public:
               void setStudentDetails(int sid, string sname, int ooc, int spm, int isdm);
               int getStudentID();
               int getMarksOOC();
               int getmarksSPM();
               int getmarksISDM();
               string getstudentName();
};
void Student::setStudentDetails(int sid, string sname, int ooc, int spm, int isdm)
{
        studentID = sid;
        studentName = sname;
        marksOOC = ooc;
        marksSPM = spm;
        marksISDM = isdm;
}
int Student::getStudentID()
{
        return studentID;
```

```
}
int Student::getMarksOOC()
{
       return marksOOC;
}
int Student::getmarksSPM()
{
       return marksSPM;
}
int Student::getmarksISDM()
{
       return marksISDM;
}
string Student::getstudentName()
{
       return studentName;
}
int main ()
{
       Student s1,s2,s3;
       s1.setStudentDetails(1234,"kylie",75,80,60);
       s2.setStudentDetails(4321,"james",65,70,85);
       s3.setStudentDetails(6543,"kyson",90,85,80);
       int s1TM, s2TM, s3TM;
       s1TM = s1.getmarksISDM()+s1.getMarksOOC()+s1.getmarksSPM();
       s2TM = s2.getmarksISDM()+s2.getMarksOOC()+s2.getmarksSPM();
```

```
s3TM = s3.getmarksISDM()+s3.getMarksOOC()+s3.getmarksSPM();
cout << "Student ID = " << s1.getStudentID() << endl;</pre>
cout << "StudentName = "<< s1.getstudentName() <<endl;</pre>
cout << "Marks OOC = " << s1.getMarksOOC() << endl;</pre>
cout << "Marks SPM = " << s1.getmarksSPM() << endl;</pre>
cout << "Marks ISDM = " << s1.getmarksISDM()<< endl;</pre>
cout << "Total Marks = " << s1TM << endl;</pre>
cout << "Average Mark = " << setiosflags(ios::fixed) <<setprecision(2) << s1TM/3.0 << endl << endl;</pre>
cout << "Student ID = " << s2.getStudentID() << endl;</pre>
cout << "StudentName = "<< s2.getstudentName() <<endl;</pre>
cout << "Marks OOC = " << s2.getMarksOOC() << endl;</pre>
cout << "Marks SPM = " << s2.getmarksSPM() << endl;</pre>
cout << "Marks ISDM = " << s2.getmarksISDM()<< endl;</pre>
cout << "Total Marks = " << s2TM << endl;</pre>
cout << "Average Mark = " <<setprecision(2) << s2TM/3.0 << endl << endl;</pre>
cout << "Student ID = " << s3.getStudentID() << endl;</pre>
cout << "StudentName = "<< s3.getstudentName() <<endl;</pre>
cout << "Marks OOC = " << s3.getMarksOOC() << endl;</pre>
cout << "Marks SPM = " << s3.getmarksSPM() << endl;</pre>
cout << "Marks ISDM = " << s3.getmarksISDM()<< endl;</pre>
cout << "Total Marks = " << s3TM << endl;</pre>
cout << "Average Mark = " <<setprecision(2) << s3TM/3.0 << endl;</pre>
return 0;
```

Best of luck...

}