**Question:**

***Part A: Course Class***

1. *Define a* ***Course*** *class with the following private attributes:*
	* ***name****: A* ***String*** *representing the course name.*
	* ***mark****: An* ***integer*** *representing the course mark.*
2. *Create a* ***constructor*** *to initialize the attributes.*
3. *Create a* ***set and get methods for attribute name.***
4. *Create a set method that will only store values>=0 in attribute mark*
5. *Create a get method that only returns value of mark attribute if its >=35 else the method should returns 35.*
6. *Draw the UML class Diagram for class Course*

***Part B:***JavaApplication20 ***class (3 marks)***

*Write a* ***main()*** *method and do the required tasks below:*

1. *Create a* ***Course*** *object.*
2. *Print name and mark for the above object.*
3. ***Change name and mark for the above object****.*
4. *Print name and mark for the above object after the changes.*

Solution:

public class Course {

 private String name;

 private int mark;

 public Course(String n,int m)

 {

 name = n;

 mark = m;

 }

 public String getName()

 {

 return name;

 }

 public void setName(String n)

 {

 name = n;

 }

public int getMark()

 {

 if(mark>=35)

 return mark;

 else

 return 35;

 }

 public void setMark(int m)

 {

 if(m>=0)

 mark = m;

 }

}

*UML class Diagram for class Course:*

|  |
| --- |
| Course |
| - name : String- mark : int |
| + Course(String, int)+ getName() : String+ setName(String): void+ getMark() : int+ setMark(int) : void |

public class JavaApplication20 {

 /\*\*

 \* @param args the command line arguments

 \*/

 public static void main(String[] args) {

 // TODO code application logic here

 // Course c1 = new Course();// Error the constructor in

 // class course takes two parameters

 Course c1 = new Course("OOP",70);

 System.out.println("name: "+ c1.getName());

 System.out.println("mark: "+c1.getMark());

 c1.setName("C++");

 c1.setMark(88);

 System.out.println("name: "+ c1.getName());

 System.out.println("mark: "+c1.getMark());

 }

}