1)Answer the questions (i) and (iii) after going through the following class:

class Seminar

{

int time;

public:

Seminar() //Function 1

{

time = 30;

cout << "Seminar starts now" << endl;

}

void lecture() //Function 2

{

cout << "Lectures in the seminar on" << endl;

}

Seminar(int duration) //Function 3

{

time = duration;

cout << "Seminar starts now" << endl;

}

~Seminar() //Function 4

{

cout << "Thanks" << endl;

}

};

i. Write statements in C++ that would execute Function 1 and Function 3 of class Seminar.

ii. In Object Oriented Programming, what is Function 4 referred as and when does it get invoked/called?

iii. In Object Oriented Programming, which concept is illustrated by Function 1 and Function 3 together?

2) Consider the definition of the following class:

class Sample

{

private:

int x;

double y;

public :

Sample(); //Constructor 1

Sample(int); //Constructor 2

Sample(int, int); //Constructor 3

Sample(int, double); //Constructor 4

};

i. Write the definition of the constructor 1 so that the private member variables are initialized to 0.

ii. Write the definition of the constructor 2 so that the private member variable x is initialized according to the value of the parameter, and the private member variable y is initialized to 0.

iii. Write the definition of the constructors 3 and 4 so that the private  
member variables are initialized according to the values of the parameters.