|  |  |
| --- | --- |
| Class(1) Address | Class(2) Academic |
| #string name;  #string father\_name;  #string mother\_name;  #int postal\_code;  #string upozilla;  #string district;  #string mobile;  #string email; | -string school;  -string college;  -float ssc\_gpa;  -float hsc\_gpa;  -float HSC\_PCME\_GP; |
| +Address();  +Address(string a, string b, string c, int d, string e, string f, string g, string h); | +Academic();  +friend istream& operator>>(istream& in,Academic &m);  +float get\_point(); |

|  |  |
| --- | --- |
| Class(3) Student : public Address | Class(4) Eligible\_List |
| #Academic stdnt;  #int roll\_no;  #int form\_no; | -string name;  -int roll\_no;  -int form\_no; |
| +Student();  +Student(string m, string n, string o, int p, string q, string r, string s, string t, int i, int j, string a, string b, float c, float d, float e) :  Address(m, n, o, p, q, r, s, t);  +friend istream& operator>>(istream& in, Student& M);  +string get\_name();  +int get\_roll();  +int get\_form\_no();  + float getp(); | +friend ostream& operator<<(ostream &out,Eligible\_List &E)  +bool check\_point(Student&);  +bool searching(int R,Eligible\_List &G)  +string get\_name();  +int get\_roll();  +int get\_form\_no() |

|  |
| --- |
| Class(5) Result |
| -string name;  -int roll\_no;  -int form\_no;  -float mark;  -int merit; |
| +void put\_value(float m,int n,Eligible\_List &S);  +bool search\_result(int R,Result &Res);  +friend ostream& operator<<(ostream &out,Result &E) |

(-), (#) and (+) sign has used for private, protected and public members respectively

Description:

This project is about higher study “Admission System”. The program is written on the base object oriented programming language. Here used total number of class is five named

1. Address
2. Academic
3. Student
4. Eligible\_List and
5. Result.

Almost all the features of object oriented programming language such as object, class, encapsulation, inheritance, polymorphism, data abstraction, message passing has been used here. The class Address and Academic is inherited and composited respectively by the class Student. For admission, by this software the student first have to choice the university code such as 1 for KUET. Then the student have to fill up the form given by the university by address, academic information etc what has been wanted. There has a way to show the total eligible list, result list and a search option by roll number to find his eligibility and final result.