TASK-2

#include <iostream>

using namespace std;

class Course

{

private:

string title;

float credit\_hour;

public:

bool check\_credit(float f)

{

if(f>0.0 && f<=4.0)

return true;

else return false;

}

set\_title(string s)

{

title = s;

}

set\_credit(float f)

{

if(check\_credit(f)) credit\_hour = f;

else

{

cout<<"Error"<<endl;

}

}

string get\_title()

{

return title;

}

float get\_credit()

{

return credit\_hour;

}

Course()

{

set\_title("");

set\_credit(1.0);

}

Course(string s, float f)

{

set\_title(s);

set\_credit(f);

}

};

class Department

{

private:

Course courses[30];

public:

Department()

{

//the courses constructor already initializes all the courses to approriate value

//no other contructor is required in this case

}

void set\_courses(void)

{

for(int i=0;i<30;i++)

{

cout<<"Enter title and credit for the course"<<endl;

string s;

float f;

cin>>s>>f;

courses[i].set\_title(s);

courses[i].set\_credit(f);

}

}

void update\_course(void)

{

cout<<"Select course name to update"<<endl;

string s;

cin>>s;

int label = 0;

for(int i=0;i<30;i++)

{

if(courses[i].get\_title() == s)

{

label = 1;

cout<<"Enter updated value:"<<endl;

string us;

float uf;

courses[i].set\_title(us);

courses[i].set\_credit(uf);

cout<<"Course updated"<<endl;

break;

}

}

if(!label)

{

cout<<"Error course not found"<<endl;

}

}

float total\_credit()

{

float total = 0.0;

for(int i=0;i<30;i++)

{

if(courses[i].get\_title() != "")

total += courses[i].get\_credit();

}

return total;

}

};