P2)

#include <iostream>

#include <string>

using namespace std;

class Teacher

{ protected:

string tdept;

string tname;

void setTData()

{ cout<<"enter teacher's name and dept taught\n";

cin.clear();

cin>>tname>>tdept;

}

void dispTData()

{ cout<<"teacher name:"<<tname<<endl;

cout<<"dept:"<<tdept<<endl;

}

};

class Student

{ string sbranch;;

string sname;

public:

void setSData()

{ cout<<"enter student's name and branch \n";

cin.clear();

cin>>sname>>sbranch;

}

void dispSData()

{ cout<<"student name:"<<sname<<endl;

cout<<"student branch:"<<sbranch<<endl;

}

};

class Teaching\_Asst: protected Teacher,private Student

{ public :

string course;

string emp\_type;

void setTAData()

{ cout<<"enter the course being taught\n";

cin>>course;

cout<<"enter emp type as teacher/student\n";

cin>>emp\_type;

if(emp\_type=="teacher")

setTData();

else

setSData();

}

void dispData()

{ if(emp\_type=="teacher")

dispTData();

else

dispSData();

cout<<"course:"<<course<<endl;

}

};

int main()

{ Teaching\_Asst t;

t.setTAData();

t.dispData();

return 0;

}

OUTPUT:

