**Problem No 4:** CSE department wants to select Programming Coach for its students. Any student of the department can be a coach. He need to have high profile at least three ACM regional contest participation and number of problem solutions of ACM need to more 300. Students need to apply in the department, if anyone’s performance is below the requirement he will discard automatically. As a student of CSE, write OOP code for the project. All the communications will be held by message.

**Source Code:**

#include<bits/stdc++.h>

using namespace std;

class Person

{

public:

string name,NID,DOB;

void getInfo(string x,string y,string z)

{

name=x;

NID=y;

DOB=z;

}

void putInfo()

{

cout<<"Name : "<<name<<endl;

}

};

class Candidate: public Person

{

public:

int ID,solved,participation;

void getData(string x,string y,string z,int a,int b,int c)

{

getInfo(x,y,z);

ID=a;

solved=b;

participation=c;

}

void putData()

{

putInfo();

cout<<"ID of qualified student : "<<ID<<endl;

}

bool qualify()

{

if(solved>=300 && participation>=3)

return 1;

else

return 0;

}

};

int main()

{

int i,j;

Candidate obj[5];

obj[0].getData("Tanveer","123456789","09/11/1997",11708035,499,3);

obj[1].getData("Suleiman","123456780","30/06/1998",11708025,299,3);

obj[2].getData("Sukhon","523456789","30/06/1996",11708020,490,5);

obj[3].getData("Jon","513456789","30/06/1995",11608039,600,3);

obj[4].getData("Snow","123456756","30/06/1996",11608020,499,1);

cout<<"Qualified candidate list for trainer of CSE dept is given below : \n";

for(i=0;i<5;i++)

{

if(obj[i].qualify())

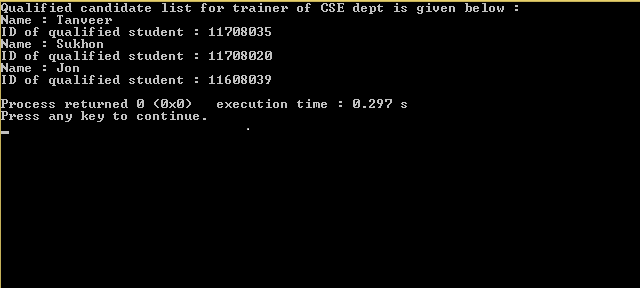
obj[i].putData();

}

return 0;

}

**Sample Output:**

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