**CS112\_Lab#04**

Hamza Ahmad 2023217

Task#01

//Engr Hamza Ahmad

#include<iostream>

using namespace std;

class student{

    private:

    string roll\_no;

    string  name;

    int age;

    float marks;

    float cgpa;

    public:

    void get\_Detail()

    {

        string r;

         string n;

         int a;

         float m, c;

        cout<<"Your name:";

        cin>>n;

        name=n;

        cout<<"Enter Your roll No :";

        cin>>r;

        cout<<"Enter your Marks out of 500";

        if (marks<=500)

        {

            cin>>m;

            //while(m<1  || m<500);

        }

        else {cout<<"Sorry";}

        cout<<"Enter your cgpa";

        cin>>c;

    }

    void print\_detail()

    {

        cout<<"----------\n";

        cout<<"YOUR name is="<<name<<endl;

        cout<<"Your marks is ="<<marks<<endl;

        cout<<"Your roll no is ="<<roll\_no<<endl;

        cout<<"Your CGPA is ="<<cgpa<<endl;

        cout<<"Your percent age is ="<<(marks/500)\*100<<endl;

    }

 };

int main()

{

    student s;

    s.get\_Detail();

    s.print\_detail();

return 0;

}

***out put***

Your name: HAMZA

Enter Your roll No :2023217

Enter your Marks out of 500 300

Enter your cgpa 3

----------

YOUR name is=HAMZA

Your marks is =3.72508e-039

Your roll no is =2023217

Your CGPA is =5.87765e-039

Your percent age is =7.45016e-040

Task#02

//Engr Hamza Ahmad

#include<iostream>

using namespace std;

class Distance{

    private:

    float feet,inches;

    public:

    void getDistance(){

        float f, i, f2=0;

        cout<<"Enter  the DISTENCE IN FEET";

        cin>>f;

        feet=f;

        cout<<"Enter the distance in  inches:";

        cin>>i;

          if  (i>=12)

        {

            f2=f2+1;

        }

        else if (i<12)

        {

            i=i/12;

            f2=f2+i;

        }

       inches=f2;

    }

    void add\_dist()

    {

        cout<<"Addition of distance is ="<<feet+inches<<endl;

    }

    void subtract\_dist()

    {

        cout<<"Subtraction of distance is ="<<feet-inches<<endl;

    }

   void display()

   {

      cout<<"Original  Distance in feet ="<<feet<<endl;

      cout<<"Original in inches is ="<<inches<<endl;

   }

};

int main()

{

Distance d;

d.getDistance();

d.add\_dist();

d.subtract\_dist();

d.display();

return 0;

}

OUT PUT

Enter the DISTENCE IN FEET 20

Enter the distance in inches:15

Addition of distance is =21

Subtraction of distance is =19

Original Distance in feet =20

Original in inches is =1