DSA 0136 OBJECT ORIENTED PROGRAMMING WITH C++ FOR SCANNING

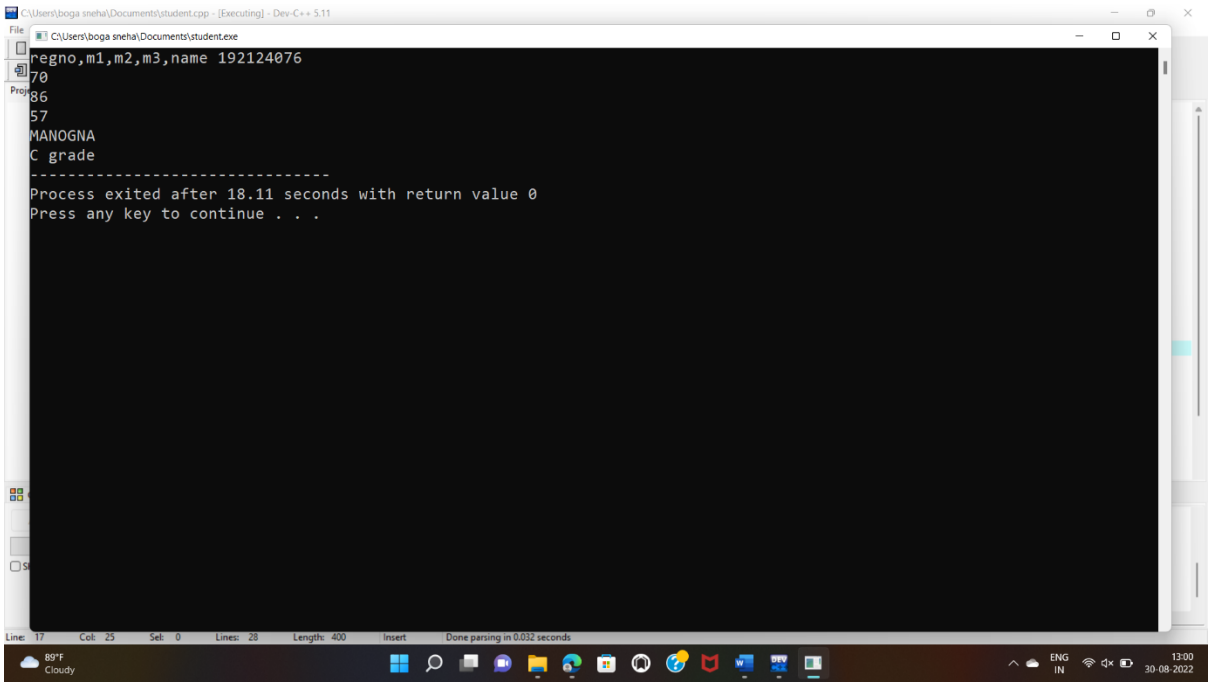
DATE:29/08/2022

1)Write a c++ program for student report read three marks.Calculate the grade of a student.

```
using namespace std;
#include<iostream>
int main()
{
	int regno,m1,m2,m3,tot,avg;
	char name[20];
	cout<<"regno,m1,m2,m3,name";
	cin>>regno>>m1>>m2>>m3>>name;
	tot=m1+m2+m3;
	avg=tot/3;
	if (avg>=90)
	{
		cout<<"A grade";
	}
	else if (avg>80&&avg<90)
	{
		cout<<"B grade";
	}
	else if (avg>70&&avg<80)
	{
		cout<<"C grade";
	}
	else
	{
		cout<<"no grade";
	}
	return 0;
```

}

OUTPUT:



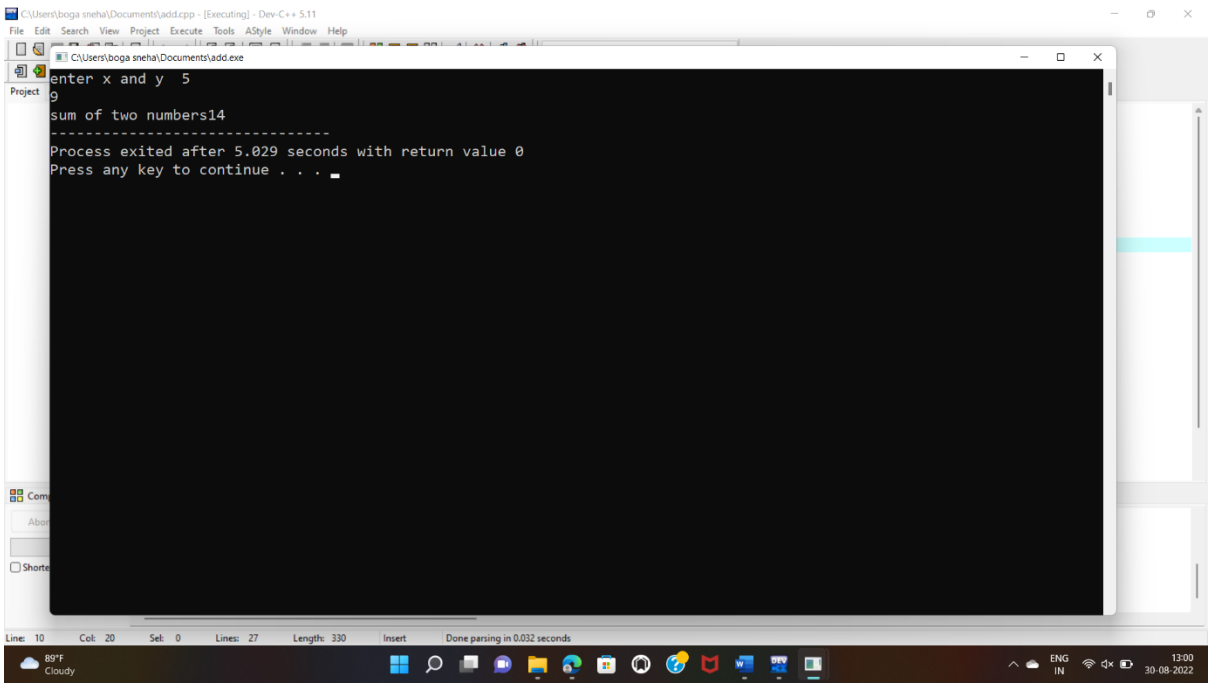
DATE:30/08/2022

1)Write a c++ program to perform sum of two numbers using class and object.

```
using namespace std;
#include<iostream>
class add
{
        int x,y,z;
public:
        void getdata();
        void display();
};
void add::getdata()
{
        cout<<"enter x and y ";
```

```
        cin>>x>>y;
}
void add::display()
{
        cout<<"sum of two numbers";
        z=x+y;
        cout<<z;
}
int main()
{
        add a;
        a.getdata();
        a.display();
        return 0;
}
```

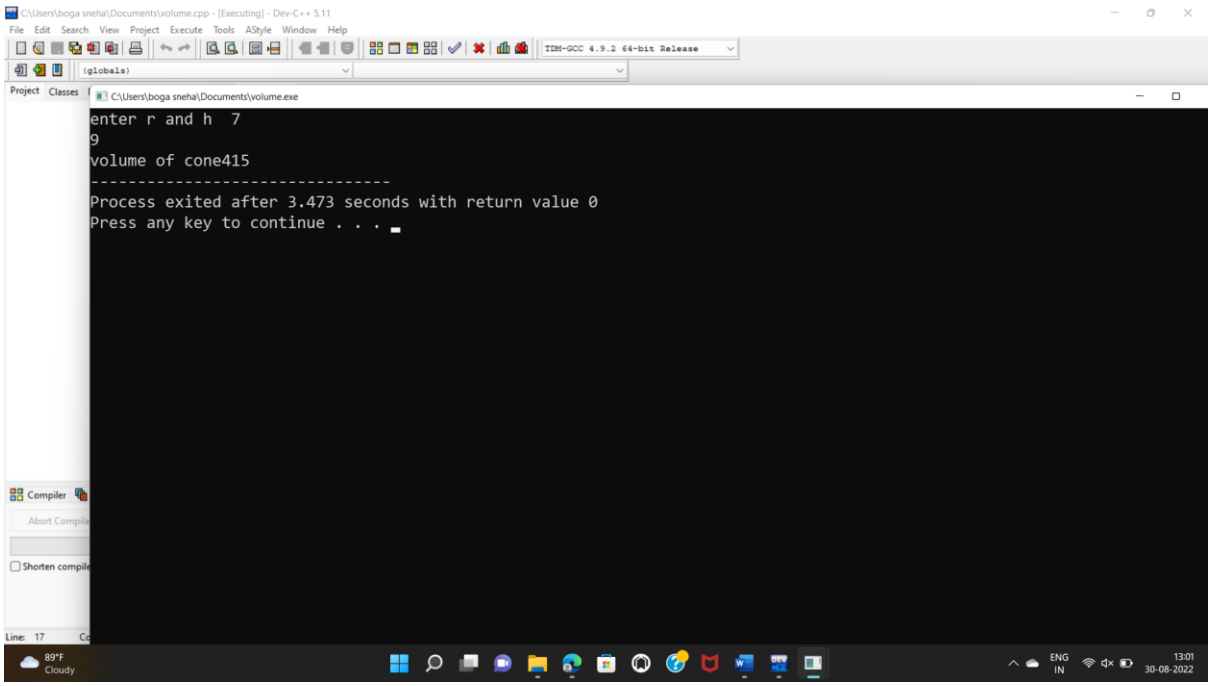
OUTPUT:



3)Write a c++ program to find the volume of a cone using class and object.

```
using namespace std;
#include<iostream>
class volume
{
	int r,h,z;
public:
	void getdata();
	void display();
};
void volume::getdata()
{
	cout<<"enter r and h ";
	cin>>r>>h;
}
void volume::display()
{
	cout<<"volume of cone";
	z=0.3*3.14*r*r*h;
	cout<<z;
}
int main()
{
	volume a;
	a.getdata();
	a.display();
	return 0;
}
```

OUTPUT:



3)Write a c++ program to calculate the simple interest and compound interest using class and object.

```
using namespace std;
#include<iostream>
#include<math.h>
class interest
{
        int p,n,r,z,x;
public:
        void getdata();
        void display();
};
void interest::getdata()
{
        cout<<"enter p,n and r";
        cin>>p>>n>>r;
}
void interest::display()
```

```
{
        cout<<"simple interest";
        z=(p*n*r)/100;
        cout<<z;
        cout<<"compound interest";
        x=p*(pow((1+r/100),n));
        cout<<x;
}
int main()
{
        interest a;
        a.getdata();
        a.display();
        return 0;
}
```

OUTPUT: