

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

{

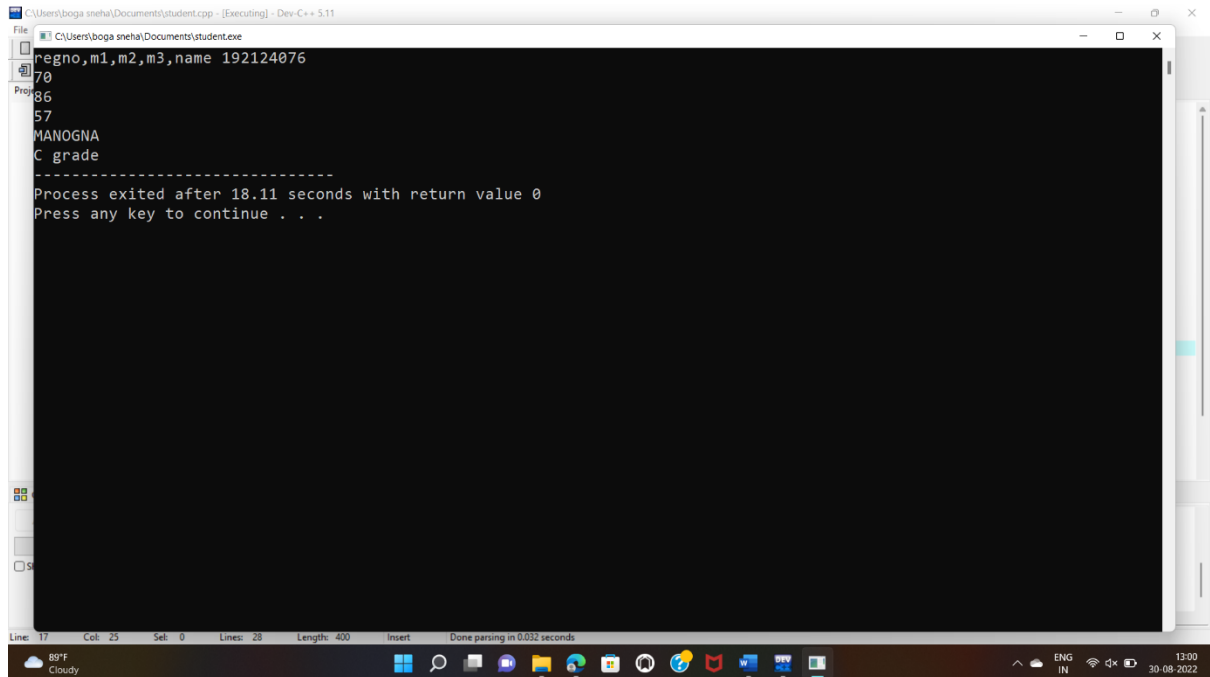
cout<<"no grade";

}

return 0;

}

OUTPUT:



```
C:\Users\boga sneha\Documents\student.cpp - [Executing] - Dev-C++ 5.11
File Edit View Compiler Run Window Help
C:\Users\boga sneha\Documents\student.exe
regno,m1,m2,m3,name 192124076
70
86
57
MANOGNA
C grade
-----
Process exited after 18.11 seconds with return value 0
Press any key to continue . . .
Line: 17 Col: 25 Sel: 0 Lines: 20 Length: 400 Insert Done parsing in 0.032 seconds
89°F Cloudy ENG IN 13:00 30-08-2022
```

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;

}

```

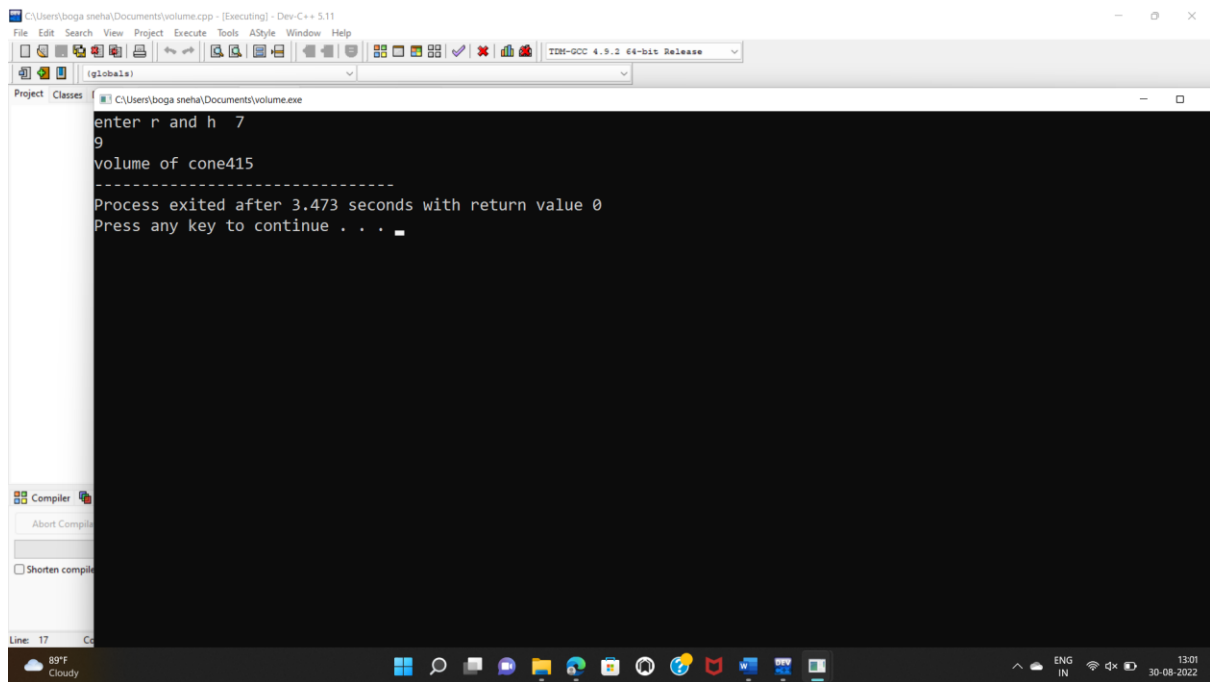
OUTPUT:

The screenshot shows a Windows desktop with a Dev-C++ IDE window titled 'C:\Users\boga sneha\Documents\add.cpp - [Executing] - Dev-C++ 5.11'. The IDE window has a menu bar (File, Edit, Search, View, Project, Execute, Tools, ASStyle, Window, Help) and a toolbar. The main editor area shows the output of the program: 'enter x and y 5', 'sum of two numbers14', and 'Process exited after 5.029 seconds with return value 0'. The status bar at the bottom indicates 'Line: 10', 'Col: 20', 'Sel: 0', 'Lines: 27', 'Length: 330', and 'Done parsing in 0.032 seconds'. The Windows taskbar at the bottom shows the date and time as '13:00 30-08-2022' and the weather as '89°F Cloudy'.

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:

The screenshot shows the Dev-C++ IDE with a project named 'simpleinterest.cpp'. The program is running, and the output window displays the following text:

```

Enter p,n and r 4000
2
4
simple interest320compound interest4000
-----
Process exited after 7.669 seconds with return value 0
Press any key to continue . . .

```

The IDE interface includes a menu bar (File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, Help), a toolbar, and a project explorer on the left. The status bar at the bottom indicates the current line and column (Line: 24, Col: 3) and the system clock (13:01, 30-08-2022).