

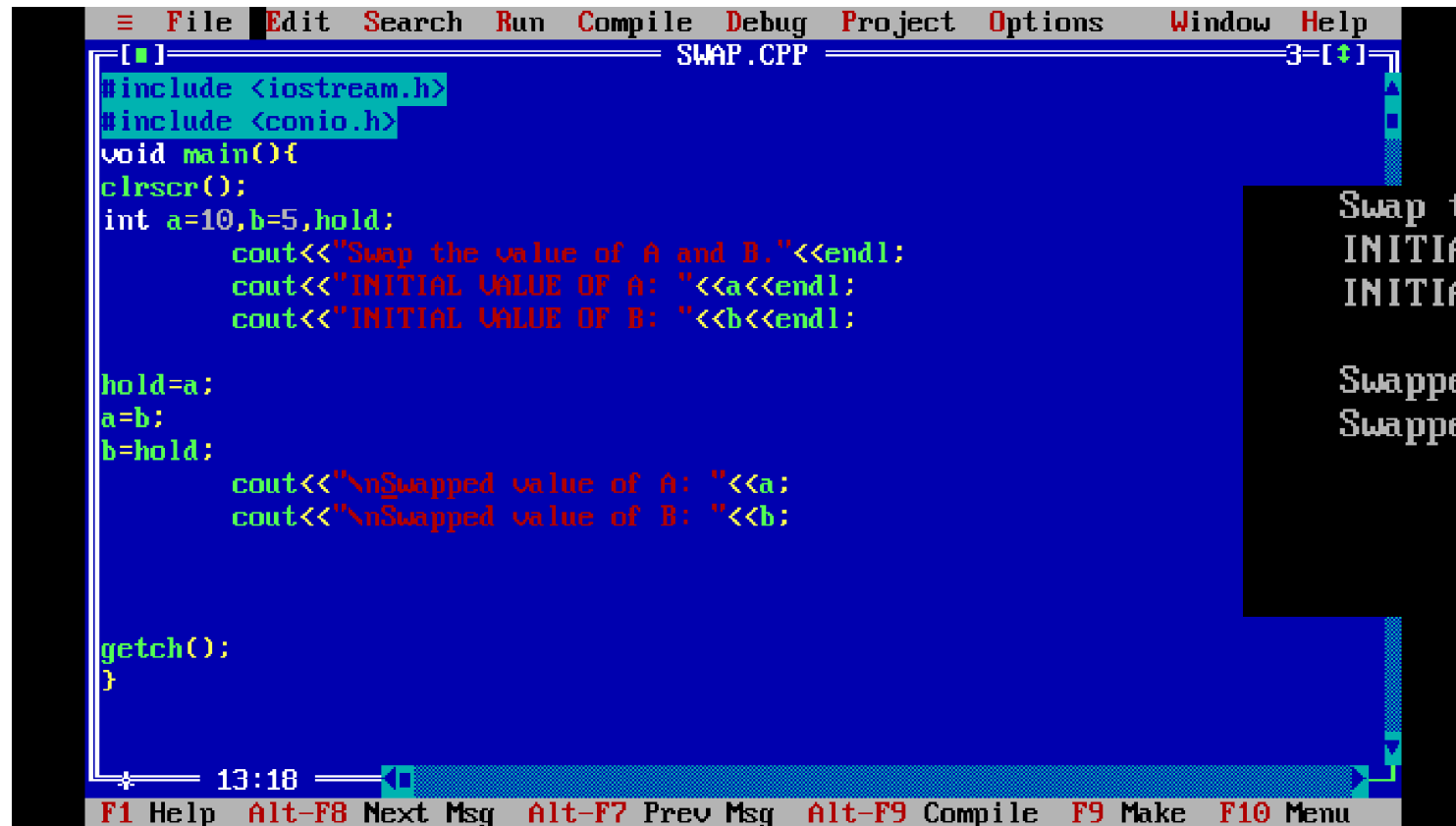
SEQUENCE (CODE)

1. Make a flowchart that will print your name five times.

```
≡ File Edit Search Run Compile Debug Project
[■] NAME5X.CPP
#include <iostream.h>
#include <conio.h>
void main () {
clrscr();
    cout<<"Print your name five times.";
    cout<<"\nMark Jhon M. Mayor";
    cout<<"\nMark Jhon M. Mayor";
    cout<<"\nMark Jhon M. Mayor";
    cout<<"\nMark Jhon M. Mayor";
    cout<<"\nMark Jhon M. Mayor";
getch();
}
```

```
Print your name five times.
Mark Jhon M. Mayor
Mark Jhon M. Mayor
Mark Jhon M. Mayor
Mark Jhon M. Mayor
Mark Jhon M. Mayor
```

2. Create a flowchart that will initialize variable a to 10 and variable b to 5. Swap the two values.



```
File Edit Search Run Compile Debug Project Options Window Help
[ ] SWAP.CPP 3-1-1
#include <iostream.h>
#include <conio.h>
void main()
{
clrscr();
int a=10,b=5,hold;
    cout<<"Swap the value of A and B."<<endl;
    cout<<"INITIAL VALUE OF A: "<<a<<endl;
    cout<<"INITIAL VALUE OF B: "<<b<<endl;

    hold=a;
    a=b;
    b=hold;

    cout<<"\nSwapped value of A: "<<a;
    cout<<"\nSwapped value of B: "<<b;

getch();
}
```

13:18

F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu

Swap the value of A and B.

INITIAL VALUE OF A: 10

INITIAL VALUE OF B: 5

Swapped value of A: 5

Swapped value of B: 10_

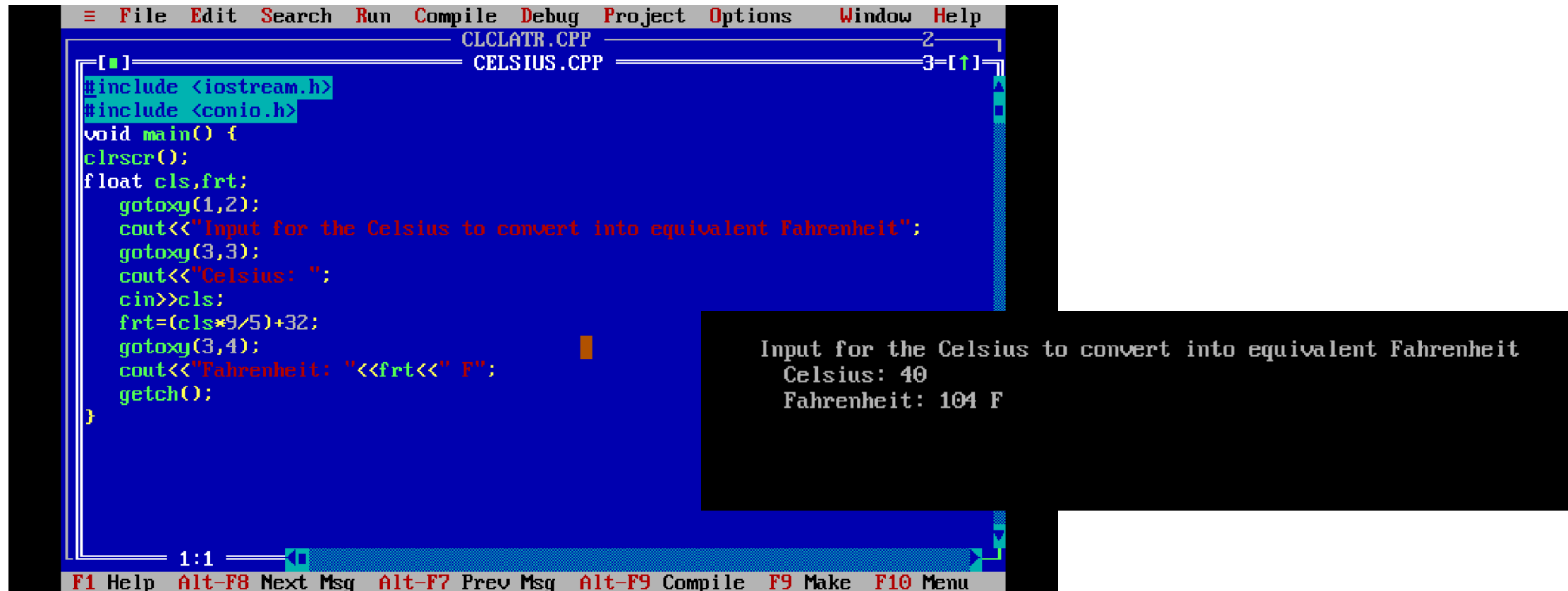
3. Create a flowchart that will input for two numbers. Compute and display for the sum, difference, product, and quotient.

```
File Edit Search Run Compile Debug Project Options Window Help
CLCLATR.CPP 26:1
#include <iostream.h>
#include <conio.h>
void main(){
clrscr();
float num1,num2,sum,dif,prod,quo;
cout<<"3. Input two numbers. COMPUTE and DISPLAY for the sum, difference, product, and quotient\n";
gotoxy(28,9);
cout<<"Enter the 1st number: ";
cin>>num1;
gotoxy(28,10);
cout<<"Enter the 2nd number: ";
cin>>num2;
sum=num1+num2;
dif=num1-num2;
prod=num1*num2;
quo=num1/num2;
gotoxy(28,11);
cout<<"SUM: "<<sum;
gotoxy(28,12);
cout<<"DIFFERENCE: "<<dif;
gotoxy(28,13);
cout<<"PRODUCT: "<<prod;
gotoxy(28,14);
cout<<"QUOTIENT: "<<quo;
getch();
}
```

3. Input two numbers. COMPUTE and DISPLAY for the sum, difference, product, and quotient

Enter the 1st number: 2
Enter the 2nd number: 3
SUM: 5
DIFFERENCE: -1
PRODUCT: 6
QUOTIENT: 0.666667_

4. Create a flowchart that will input for the Celsius and then compute and display the equivalent to Fahrenheit.



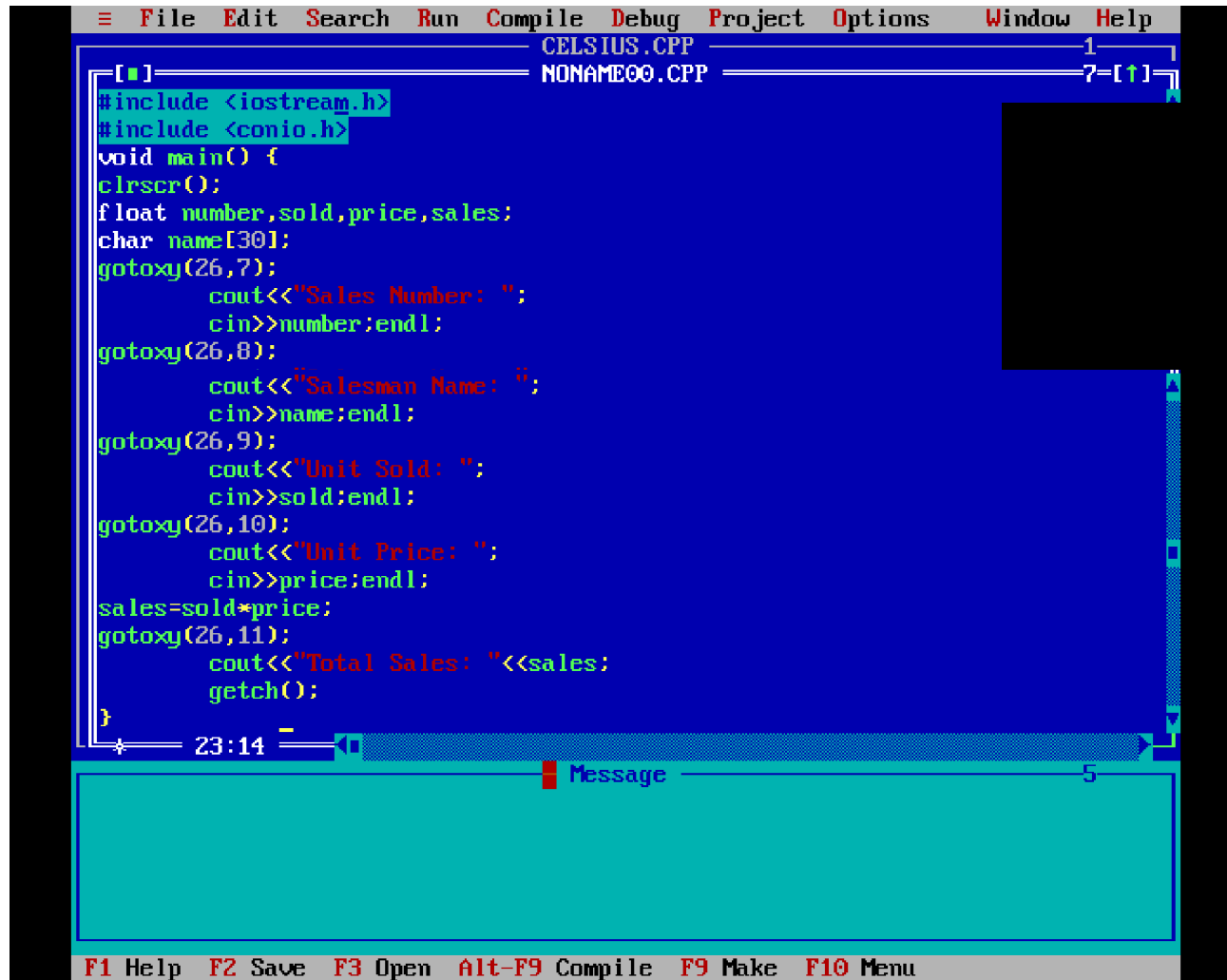
The image shows a Turbo C++ IDE window with the source code for a program that converts Celsius to Fahrenheit. The code is as follows:

```
#include <iostream.h>
#include <conio.h>
void main() {
clrscr();
float cls,frt;
gotoxy(1,2);
cout<<"Input for the Celsius to convert into equivalent Fahrenheit";
gotoxy(3,3);
cout<<"Celsius: ";
cin>>cls;
frt=(cls*9/5)+32;
gotoxy(3,4);
cout<<"Fahrenheit: "<<frt<<" F";
getch();
}
```

The output of the program is displayed in a separate window:

```
Input for the Celsius to convert into equivalent Fahrenheit
Celsius: 40
Fahrenheit: 104 F
```

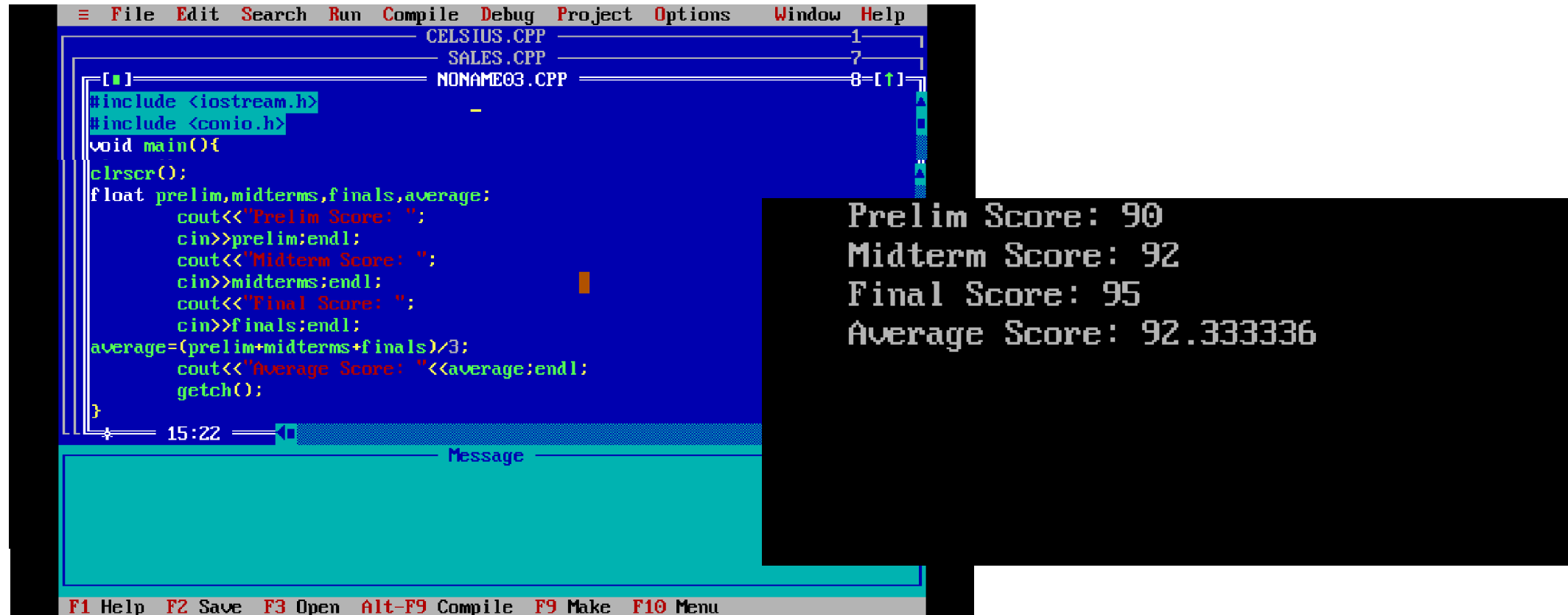
5. Create a flowchart that will input for the following: Salesman Number Salesman Name Unit Sold Unit Price
Compute and display the Total Sales ($\text{Total Sales} = \text{Unit Sold} * \text{Unit Price}$).



```
File Edit Search Run Compile Debug Project Options Window Help
CELSIUS.CPP 1
NONAME00.CPP 7-[1]
#include <iostream.h>
#include <conio.h>
void main() {
clrscr();
float number,sold,price,sales;
char name[30];
gotoxy(26,7);
cout<<"Sales Number: ";
cin>>number;endl;
gotoxy(26,8);
cout<<"Salesman Name: ";
cin>>name;endl;
gotoxy(26,9);
cout<<"Unit Sold: ";
cin>>sold;endl;
gotoxy(26,10);
cout<<"Unit Price: ";
cin>>price;endl;
sales=sold*price;
gotoxy(26,11);
cout<<"Total Sales: "<<sales;
getch();
}
23:14
Message 5
F1 Help F2 Save F3 Open Alt-F9 Compile F9 Make F10 Menu
```

Sales Number: 012
Salesman Name: MAYOR
Unit Sold: 28
Unit Price: 2000
Total Sales: 56000_

6. Create a flowchart that will input for prelim, midterms and finals, compute and display the average.



The screenshot shows the Turbo C++ IDE with the following components:

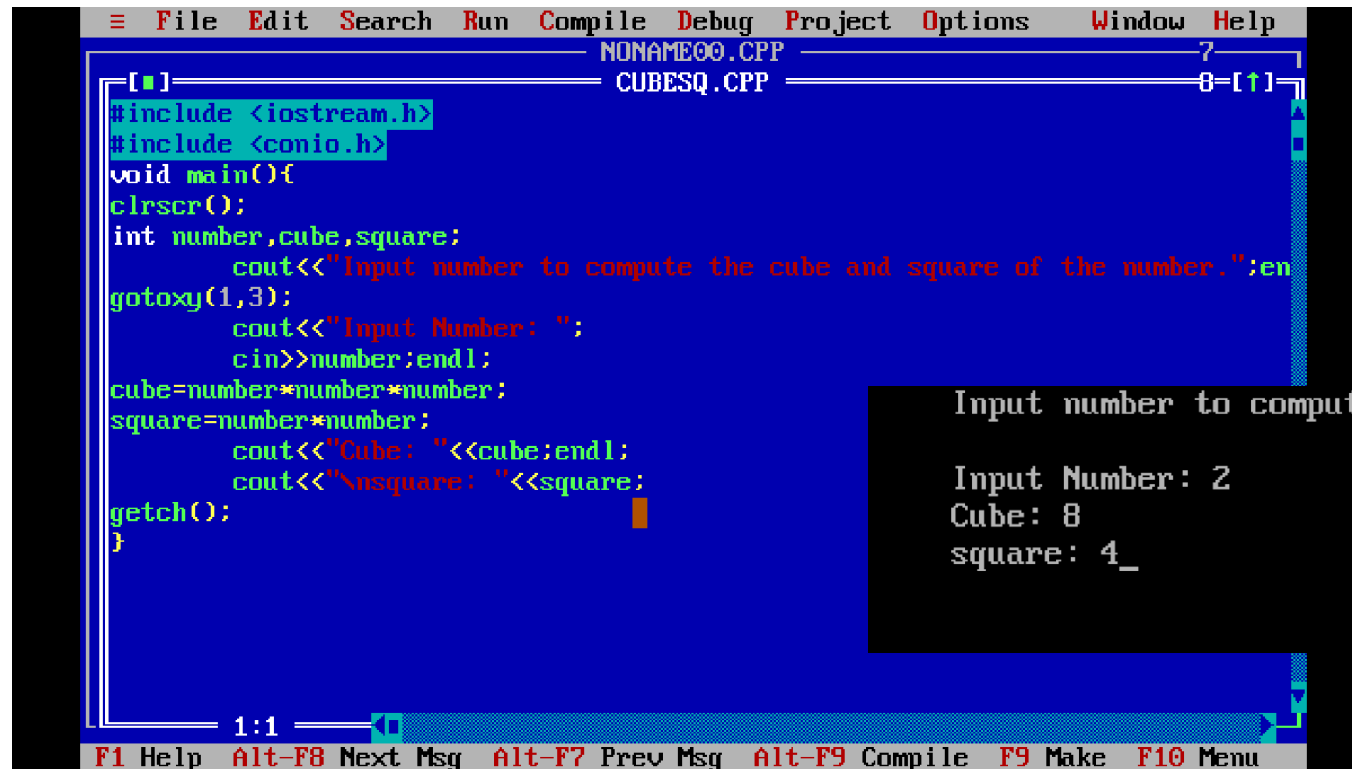
- Menu Bar:** File, Edit, Search, Run, Compile, Debug, Project, Options, Window, Help.
- Project Explorer:** CELSIUS.CPP (1), SALES.CPP (7), NONAME03.CPP (8).
- Code Editor:** Contains the following C++ code:

```
#include <iostream.h>
#include <conio.h>
void main(){
    clrscr();
    float prelim,midterms,finals,average;
    cout<<"Prelim Score: ";
    cin>>prelim;endl;
    cout<<"Midterm Score: ";
    cin>>midterms;endl;
    cout<<"Final Score: ";
    cin>>finals;endl;
    average=(prelim+midterms+finals)/3;
    cout<<"Average Score: "<<average;endl;
    getch();
}
```
- Status Bar:** 15:22, Message.
- Footer:** F1 Help, F2 Save, F3 Open, Alt-F9 Compile, F9 Make, F10 Menu.

Output of the program (shown in a separate window):

```
Prelim Score: 90
Midterm Score: 92
Final Score: 95
Average Score: 92.333336
```

7. Create a flowchart that will input for a number then compute and display the cube and square of the number.



```
File Edit Search Run Compile Debug Project Options Window Help
NONAME00.CPP 7
CUBESQ.CPP 8-11
#include <iostream.h>
#include <conio.h>
void main(){
clrscr();
int number,cube,square;
cout<<"Input number to compute the cube and square of the number.";en
gotoxy(1,3);
cout<<"Input Number: ";
cin>>number;endl;
cube=number*number*number;
square=number*number;
cout<<"Cube: "<<cube;endl;
cout<<"\nsquare: "<<square;
getch();
}
```

1:1

F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu

Input number to compute the cube and square of the number.

Input Number: 2

Cube: 8

square: 4_

8. Create a flowchart that will input for the length and width of a rectangle, compute and display the area and the perimeter of a rectangle

```
#include <iostream.h>
#include <conio.h>
void main(){
    clrscr();
    float L,W,area,perimeter;
    cout<<"Input Length and Width to compute Area and Perimeter of a r
    cout<<"\nInput Length: ";
    cin>>L;endl;
    cout<<"\nInput Length: ";
    cin>>L;endl;
    cout<<"Input Width: ";
    cin>>W;endl;

    area=W*L;
    perimeter=(L+W)*2;
    cout<<"Area: "<<area;
    cout<<"\nPerimeter: "<<perimeter;
    getch();
}
```

16:22

Message

•Linking ..\SOURCE\NONAME05.EXE:

Input Length and Width to compute Area and Perimeter of a rectangle

9. Create a flowchart that will input for the diameter of a circle, compute and display the area and circumference of a circle.

```
File Edit Search Run Compile Debug Project Options Window Help
CIRCLE.CPP
#include <iostream.h>
#include <conio.h>
void main () {
clrscr();
float radius,diameter,area,circumference;
    cout<<"Input the diameter of a circle to compute its area and circumference\n";
    cout<<"Diameter: ";
    cin>>diameter;endl;
radius=diameter/2;
area=3.1416*(radius*radius);
circumference=3.1416*diameter;
    cout<<"AREA: "<<area;
    cout<<"\nCIRCUMFERENCE: "<<circumference;
getch();
}
12:30
```

Input the diameter of a circle to compute its area and circumference
Diameter: 3
AREA: 7.0686
CIRCUMFERENCE: 9.4248_

•Linking ..\SOURCE\NONAME00.EXE:

F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu

10. Create a flowchart that will input for the base, height and sides of a triangle, compute and display the area and perimeter of a triangle

```
File Edit Search Run Compile Debug Project Options Window Help
CIRCLE.CPP 1
TRIANGLE.CPP 3-[-]
#include <iostream.h>
#include <conio.h>
void main() {
clrscr();
float base,height,area,perimeter,side1,side2,side3;
cout<<"Compute the area and perimeter of a triangle.";
cout<<"\nBase: ";
cin>>base;
cout<<"Height: ";
cin>>height;
cout<<"1st side of a triangle: ";
cin>>side1;
cout<<"2nd side of a triangle: ";
9:16
Message
•Linking ..\SOURCE\NONAME01.EXE:
F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Comp
```

Compute the area and perimeter of a triangle.
Base: 2
Height: 3
1st side of a triangle: 2
2nd side of a triangle: 2
3rd side of a triangle: 2

AREA: 3
PERIMETER: 6