

1. Revise your Grade flowchart in Sequence constructs by identifying the remarks whether the average grade is Passed or Failed. If average is greater than or equal to 75 then passed else failed.

```
File Edit Search Run Compile Debug Project Options Window Help
REMARKS.CPP
#include <iostream.h>
#include <conio.h>
void main()
clrscr();
float prelim,midterms,finals,ave;
cout<<"Identify remarks whether \"Passed\" or \"Failed\".";
cout<<"\nInput Prelim Score: "; //user input for prelim score
cin>>prelim;
cout<<"Input Midterms Score: "; //user input for midterms score
cin>>midterms;
cout<<"Input Finals Score: "; //user input for finals score
cin>>finals;
ave=(prelim+midterms+finals)/3; //compute for average
if(ave>=75){//display PASSED if average is greater than or equal to 75
cout<<"\nREMARKS: "<<"PASSED";}
else{//display FAILED if condition is false
cout<<"\nREMARKS: "<<"FAILED";}
getch();
}
16:53
F1 Help F2 Save F3 Open Alt-F9 Compile F9 Make F10 Menu
```

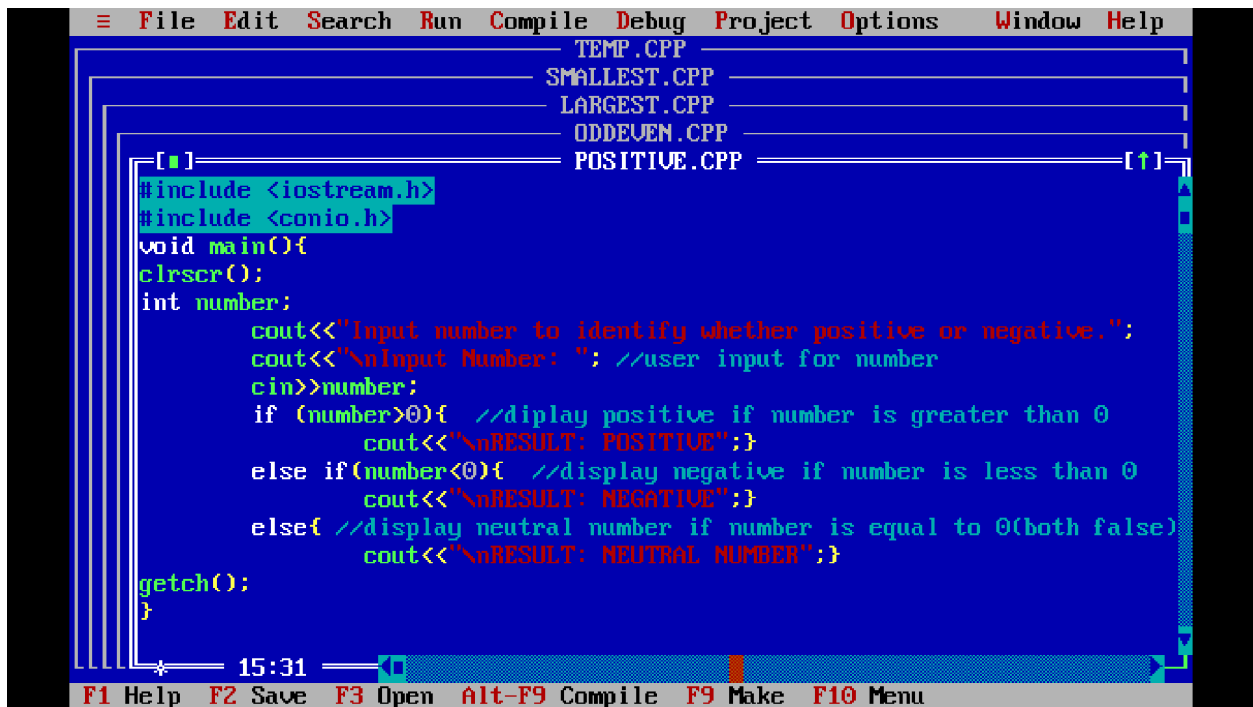
```
Identify remarks whether "Passed" or "Failed".
Input Prelim Score: 90
Input Midterms Score: 92
Input Finals Score: 76

REMARKS: PASSED
```

```
Identify remarks whether "Passed" or "Failed".
Input Prelim Score: 74
Input Midterms Score: 74
Input Finals Score: 74

REMARKS: FAILED
```

2. Create a flowchart that will input for a number then identify whether the number is positive or negative.



```
File Edit Search Run Compile Debug Project Options Window Help
TEMP.CPP
SMALLEST.CPP
LARGEST.CPP
ODDEVEN.CPP
POSITIVE.CPP
#include <iostream.h>
#include <conio.h>
void main(){
clrscr();
int number;
cout<<"Input number to identify whether positive or negative.";
cout<<"\nInput Number: "; //user input for number
cin>>number;
if (number>0){ //diplay positive if number is greater than 0
cout<<"\nRESULT: POSITIVE";}
else if(number<0){ //display negative if number is less than 0
cout<<"\nRESULT: NEGATIVE";}
else{ //display neutral number if number is equal to 0(both false)
cout<<"\nRESULT: NEUTRAL NUMBER";}
getch();
}
```

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F1 Help F2 Save F3 Open Alt-F9 Compile F9 Make F10 Menu

```
Input number to identify whether positive or negative.
Input Number: 2

RESULT: POSITIVE
```

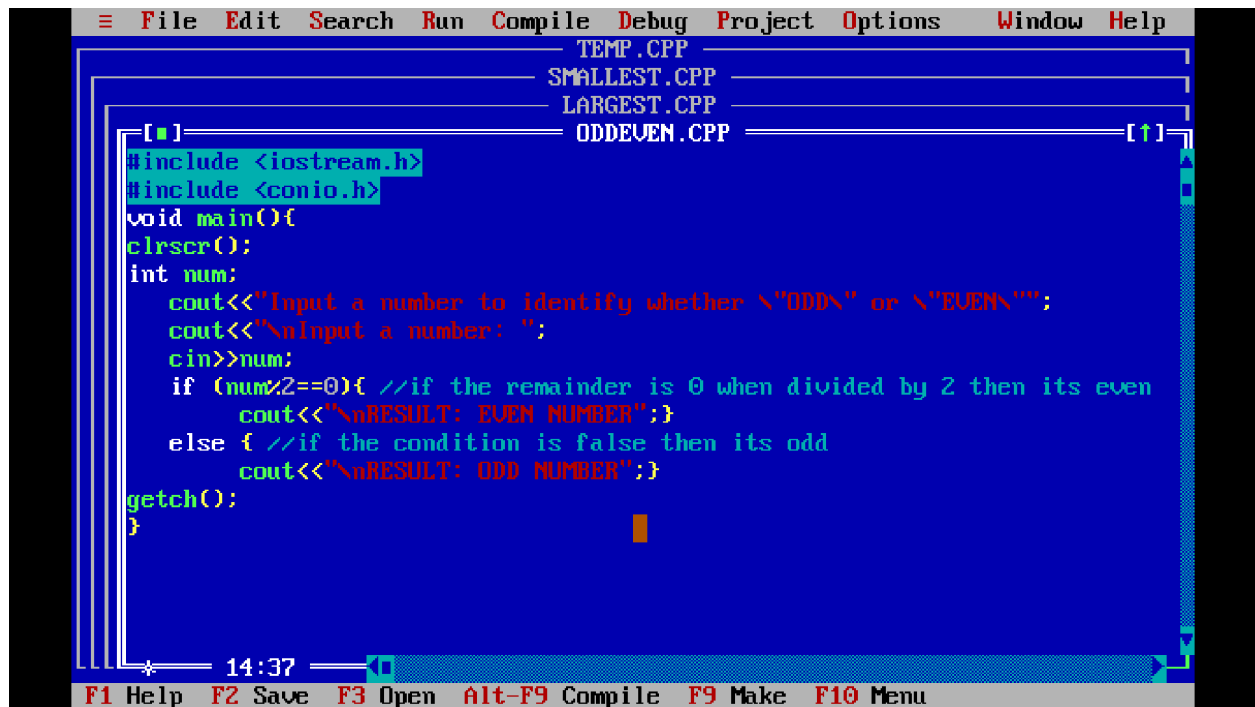
```
Input number to identify whether positive or negative.
Input Number: 0

RESULT: NEUTRAL NUMBER_
```

```
Input number to identify whether positive or negative.
Input Number: -1

RESULT: NEGATIVE_
```

3. Create a flowchart that will input for a number then identify whether odd or even number.



```
File Edit Search Run Compile Debug Project Options Window Help
TEMP.CPP
SMALLEST.CPP
LARGEST.CPP
ODDEVEN.CPP
#include <iostream.h>
#include <conio.h>
void main(){
clrscr();
int num;
cout<<"Input a number to identify whether \"ODD\" or \"EVEN\"";
cout<<"\nInput a number: ";
cin>>num;
if (num%2==0){ //if the remainder is 0 when divided by 2 then its even
cout<<"\nRESULT: EVEN NUMBER";}
else { //if the condition is false then its odd
cout<<"\nRESULT: ODD NUMBER";}
getch();
}
```

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F1 Help F2 Save F3 Open Alt-F9 Compile F9 Make F10 Menu

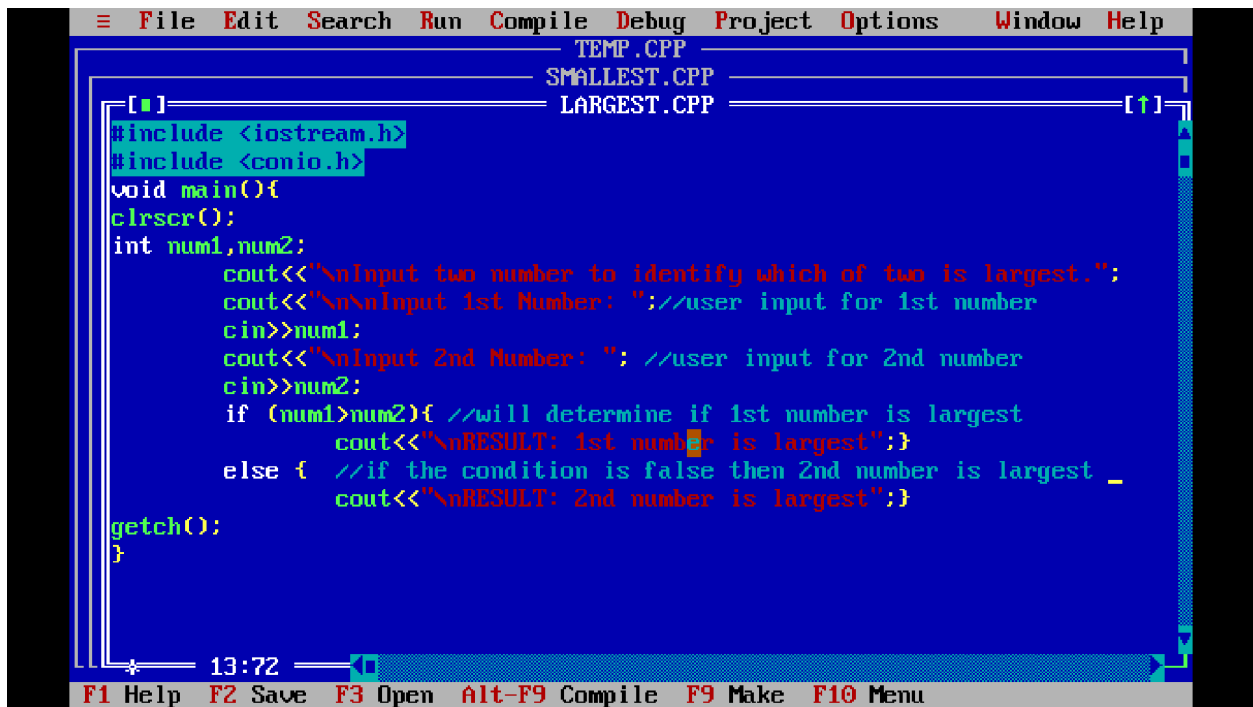
```
Input a number to identify whether "ODD" or "EVEN"
Input a number: 2

RESULT: EVEN NUMBER
```

```
Input a number to identify whether "ODD" or "EVEN"
Input a number: 1

RESULT: ODD NUMBER
```

4. Create a flowchart that will input for 2 numbers then identify which of the two is the largest.



```
File Edit Search Run Compile Debug Project Options Window Help
TEMP.CPP
SMALLEST.CPP
LARGEST.CPP
#include <iostream.h>
#include <conio.h>
void main(){
clrscr();
int num1,num2;
cout<<"\nInput two number to identify which of two is largest.";
cout<<"\n\nInput 1st Number: "; //user input for 1st number
cin>>num1;
cout<<"\nInput 2nd Number: "; //user input for 2nd number
cin>>num2;
if (num1>num2){ //will determine if 1st number is largest
cout<<"\nRESULT: 1st number is largest";}
else { //if the condition is false then 2nd number is largest
cout<<"\nRESULT: 2nd number is largest";}
getch();
}
```

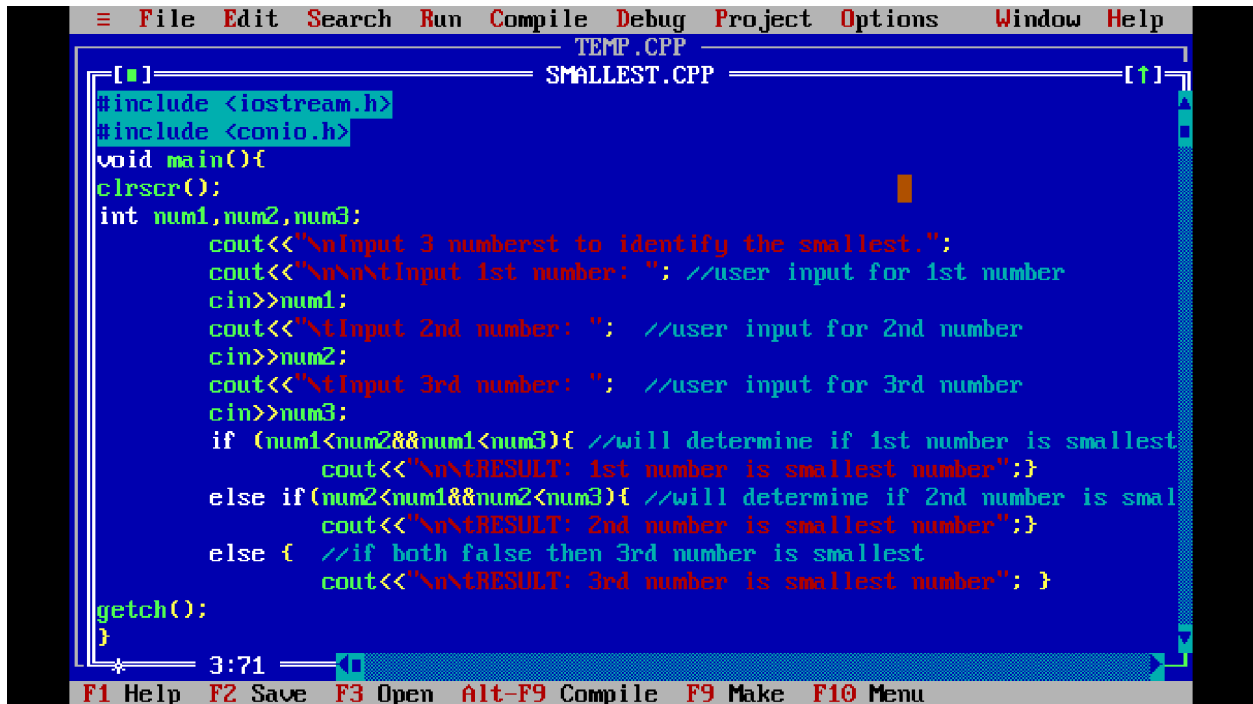
13:72

F1 Help F2 Save F3 Open Alt-F9 Compile F9 Make F10 Menu

```
Input two number to identify which of two is largest.
Input 1st Number: 2
Input 2nd Number: 1
RESULT: 1st number is largest
```

```
Input two number to identify which of two is largest.
Input 1st Number: 1
Input 2nd Number: 2
RESULT: 2nd number is largest_
```

5. Create a flowchart that will input 3 numbers then identify the smallest.



```
File Edit Search Run Compile Debug Project Options Window Help
TEMP.CPP
SMALLEST.CPP
#include <iostream.h>
#include <conio.h>
void main(){
clrscr();
int num1,num2,num3;
cout<<"\nInput 3 numberst to identify the smallest.";
cout<<"\n\nInput 1st number: "; //user input for 1st number
cin>>num1;
cout<<"\nInput 2nd number: "; //user input for 2nd number
cin>>num2;
cout<<"\nInput 3rd number: "; //user input for 3rd number
cin>>num3;
if (num1<num2&&num1<num3){ //will determine if 1st number is smallest
cout<<"\n\nRESULT: 1st number is smallest number";}
else if(num2<num1&&num2<num3){ //will determine if 2nd number is smal
cout<<"\n\nRESULT: 2nd number is smallest number";}
else { //if both false then 3rd number is smallest
cout<<"\n\nRESULT: 3rd number is smallest number"; }
getch();
}
```

```
Input 3 numberst to identify the smallest.

Input 1st number: 1
Input 2nd number: 2
Input 3rd number: 3

RESULT: 1st number is smallest number_
```

```
Input 3 numberst to identify the smallest.

Input 1st number: 2
Input 2nd number: 1
Input 3rd number: 3

RESULT: 2nd number is smallest number_
```

```
Input 3 numberst to identify the smallest.

Input 1st number: 2
Input 2nd number: 3
Input 3rd number: 1

RESULT: 3rd number is smallest number_
```

6. Revise exercise #1 in selection problems by determining the equivalent grade of the computed average: 97-100= 1.0, 94-96= 1.25, 91-93= 1.5, 88-90= 1.75, 86-88= 2.0, 82-84= 2.25, 79-81= 2.5, 76-78= 2.75, 75= 3.0 else 5.0

```

File Edit Search Run Compile Debug Project Options Window Help
GRADES.CPP
#include <iostream.h>
#include <conio.h>
void main(){
clrscr();
float prelim,midterm,final,ave; //variables used
cout<<"\nINPUT SCORES AND DETERMINE THE EQUIVALENT COMPUTED AVERAGE";
cout<<"\nInput Prelim Score: "; //user input for prelim score
cin>>prelim;
cout<<"\nInput Midterm Score: "; //user input for midterm score
cin>>midterm;
cout<<"\nInput Finals Score: "; //user input for finals score
cin>>final;
ave=(prelim+midterm+final)/3; //compute fo average
if (ave>=97){
cout<<"\nCOMPUTED AVERAGE: 1.0";} //display "1.0"
else if (ave>=94){
cout<<"\nCOMPUTED AVERAGE: 1.25";} //display "1.25"
else if (ave>=91){
cout<<"\nCOMPUTED AVERAGE: 1.5";} //display "1.5"
else if (ave>=88){
cout<<"\nCOMPUTED AVERAGE: 1.75";} //display "1.75"
else if (ave>=86){
cout<<"\nCOMPUTED AVERAGE: 2.0";} //display "2.0"
else if (ave>=82){
cout<<"\nCOMPUTED AVERAGE: 2.25";} //display "2.25"
else if (ave>=79){
cout<<"\nCOMPUTED AVERAGE: 2.5";} //display "2.5"
else if (ave>=76){
cout<<"\nCOMPUTED AVERAGE: 2.75";} //display "2.75"
else if (ave>=75){
cout<<"\nCOMPUTED AVERAGE: 3.0";} //display "3.0"
else{
cout<<"\nCOMPUTED AVERAGE: 5.0";} //display "5.0"
getch();
}
35:70
F1 Help F2 Save F5 Open Alt-F9 Compile F9 Make F10 Menu

```

```

INPUT SCORES AND DETERMINE THE EQUIVALENT COMPUTED AVERAGE
Input Prelim Score: 98
Input Midterm Score: 99
Input Finals Score: 97

COMPUTED AVERAGE: 1.0_

```

```

INPUT SCORES AND DETERMINE THE EQUIVALENT COMPUTED AVERAGE
Input Prelim Score: 90
Input Midterm Score: 92
Input Finals Score: 94

COMPUTED AVERAGE: 1.5

```

```

INPUT SCORES AND DETERMINE THE EQUIVALENT COMPUTED AVERAGE
Input Prelim Score: 74
Input Midterm Score: 75
Input Finals Score: 73

COMPUTED AVERAGE: 5.0

```

7. Create a flowchart to read temperature in centigrade and display a suitable message according to the temperature state below: Temp < 0 then Freezing weather, Temp 0-10 then Very Cold weather, Temp 10-20 then Cold weather, Temp 20-30 then Normal in Temp, Temp 30-40 then Its Hot, Temp >=40 then Its Very Hot.

```

File Edit Search Run Compile Debug Project Options Window Help
TEMP.CPP
#include <iostream.h>
#include <conio.h>
void main(){
clrscr();
float temp;
cout<<"\nREAD TEMPERATURE IN CENTIGRADE TO DETERMINE ITS STATUS.";
cout<<"\nInput Temperature in Centigrade: ";
cin>>temp; //user input for temperature in centigrade
if (temp<0){
cout<<"\nTEMPERATURE STATUS: Freezing weather";}//display fr
else if (temp<=10){
cout<<"\nTEMPERATURE STATUS: Very cold weather";}//display v
else if (temp<=20){
cout<<"\nTEMPERATURE STATUS: Cold weather";}//display cold w
else if (temp<=30){
cout<<"\nTEMPERATURE STATUS: Normal in temp";}//display norm
else if (temp<=40){
cout<<"\nTEMPERATURE STATUS: Hot";}//display hot
else {
cout<<"\nTEMPERATURE STATUS: Very hot";}//display very hot
getch();
}
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F1 Help F2 Save F3 Open Alt-F9 Compile F9 Make F10 Menu

```

```

READ TEMPERATURE IN CENTIGRADE TO DETERMINE ITS STATUS.
Input Temperature in Centigrade: -1

TEMPERATURE STATUS: Freezing weather

```

```

READ TEMPERATURE IN CENTIGRADE TO DETERMINE ITS STATUS.
Input Temperature in Centigrade: 1

TEMPERATURE STATUS: Very cold weather_

```

```

READ TEMPERATURE IN CENTIGRADE TO DETERMINE ITS STATUS.
Input Temperature in Centigrade: 11

TEMPERATURE STATUS: Cold weather_

```

```

READ TEMPERATURE IN CENTIGRADE TO DETERMINE ITS STATUS.
Input Temperature in Centigrade: 21

TEMPERATURE STATUS: Normal in temp

```

```

READ TEMPERATURE IN CENTIGRADE TO DETERMINE ITS STATUS.
Input Temperature in Centigrade: 39

TEMPERATURE STATUS: Hot

```

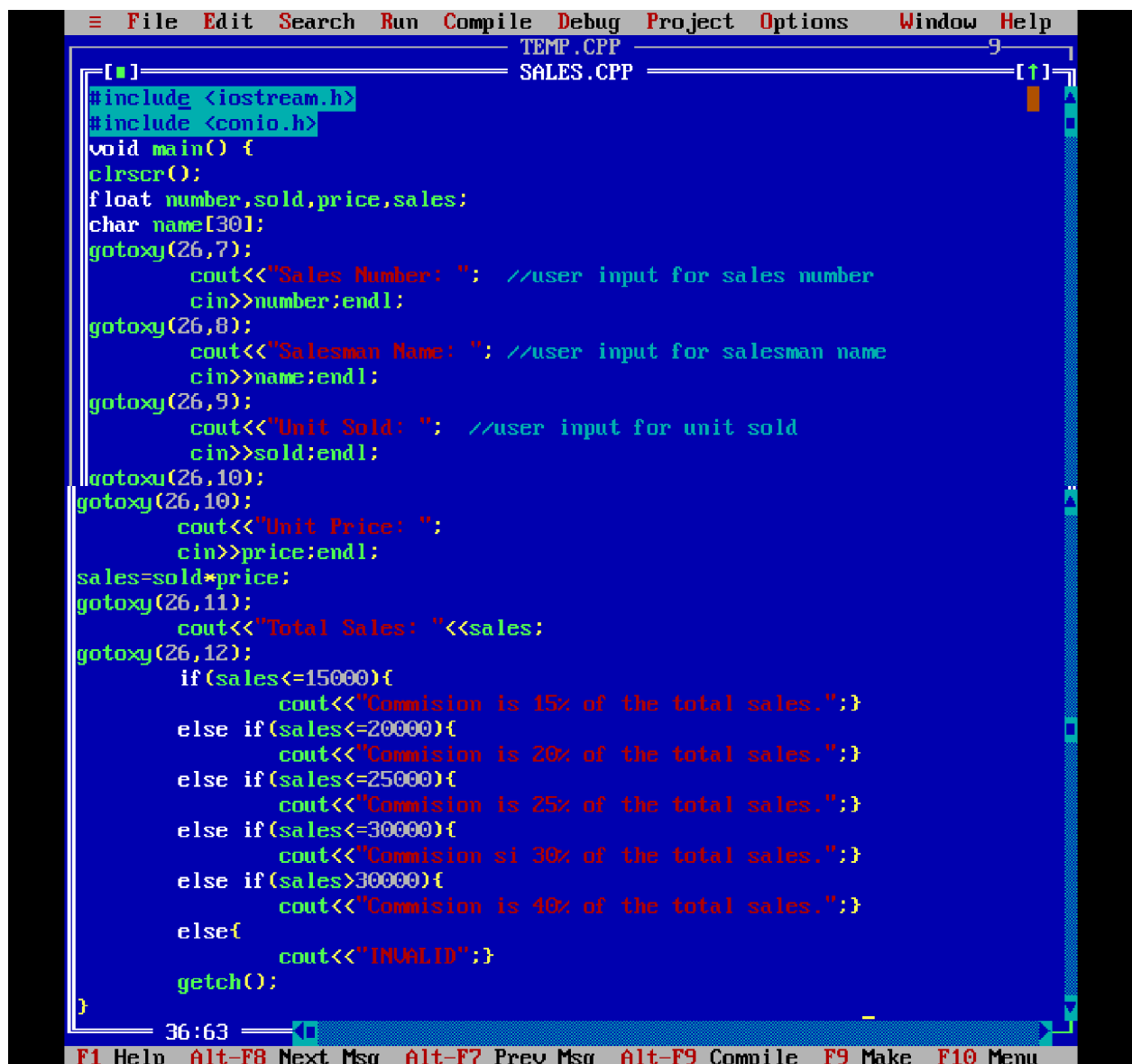
```

READ TEMPERATURE IN CENTIGRADE TO DETERMINE ITS STATUS.
Input Temperature in Centigrade: 41

TEMPERATURE STATUS: Very hot_

```

8. Revise your Sales problem in Sequence constructs by computing and displaying the sales commission base the given below: Sales $\leq$ 15000, Commission is 15% of the total sales Sales $\leq$ 20000, 20% Sales $\leq$ 25,000, 25% Sales $\leq$ 30,000, 30% Sales $>$ 30,000, 40%.



```
File Edit Search Run Compile Debug Project Options Window Help
TEMP.CPP 9
SALES.CPP
#include <iostream.h>
#include <conio.h>
void main() {
clrscr();
float number,sold,price,sales;
char name[30];
gotoxy(26,7);
cout<<"Sales Number: "; //user input for sales number
cin>>number;endl;
gotoxy(26,8);
cout<<"Salesman Name: "; //user input for salesman name
cin>>name;endl;
gotoxy(26,9);
cout<<"Unit Sold: "; //user input for unit sold
cin>>sold;endl;
gotoxy(26,10);
gotoxy(26,10);
cout<<"Unit Price: ";
cin>>price;endl;
sales=sold*price;
gotoxy(26,11);
cout<<"Total Sales: "<<sales;
gotoxy(26,12);
if(sales<=15000){
cout<<"Commision is 15% of the total sales.";}
else if(sales<=20000){
cout<<"Commision is 20% of the total sales.";}
else if(sales<=25000){
cout<<"Commision is 25% of the total sales.";}
else if(sales<=30000){
cout<<"Commision si 30% of the total sales.";}
else if(sales>30000){
cout<<"Commision is 40% of the total sales.";}
else{
cout<<"INVALID";}
getch();
}
36:63
F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
```

```

Sales Number: 2
Salesman Name: mayor
Unit Sold: 14
Unit Price: 20000
Total Sales: 280000
Commision is 40% of the total sales.

```

9. Create a flowchart to read any day number in integer and display the day name in word format.

```

File Edit Search Run Compile Debug Project Options Window Help
NONAME00.CPP
#include <iostream.h>
#include <conio.h>
void main () {
clrscr();
int num;

cout<<"DAYS IN OCTOBER 2025";
cout<<"\nDAY NUMBER: ";
cin>>num; //user input for day in number
if (num==1||num==8||num==15||num==22||num==29){ //if day number is 1 or
cout<<"DAY: WEDNESDAY";}
else if (num==2||num==9||num==16||num==23||num==30){ //if day number is 2 or 9 or 16 or 23 or 30 display THURSDAY
cout<<"DAY: THURSDAY";}
else if (num==3||num==10||num==17||num==24||num==31){ //if day number is 3 or 10 or 17 or 24 or 31 display FRIDAY
cout<<"DAY: FRIDAY";}
else if (num==4||num==11||num==18||num==25){ //if day number is 4 or 11 or 18 or 25 display SATURDAY
cout<<"DAY: SATURDAY";}
else if (num==5||num==12||num==19||num==26){ //if day number is 5 or 12 or 19 or 26 display SUNDAY
cout<<"DAY: SUNDAY";}
else if (num==6||num==13||num==20||num==27){ //if day number is 6 or 13 or 20 or 27 display MONDAY
cout<<"DAY: MONDAY";}
else if (num==7||num==14||num==21||num==28){ //if day number is 7 or 14 or 21 or 28 diplay TUESDAY
cout<<"DAY: TUESDAY";}
else {
cout<<"INVALID DAY NUMBER"; //if all condition is false display INVALID DAY NUMBER
}
getch();
}
26:1
F1 Help F2 Save F3 Open Alt-F9 Compile F9 Make F10 Menu

```

```

File Edit Search Run Compile Debug Project Options Window Help
NONAME00.CPP
put for day in number
||num==29){ //if day number is 1 or 8 or 15 or 22 or 29 display WEDNESDAY
num==23||num==30){ //if day number is 2 or 9 or 16 or 23 or 30 display THURSDAY
num==24||num==31){ //if day number is 3 or 10 or 17 or 24 or 31 display FRIDAY
num==25){ //if day number is 4 or 11 or 18 or 25 display SATURDAY
num==26){ //if day number is 5 or 12 or 19 or 26 display SUNDAY
num==27){ //if day number is 6 or 13 or 20 or 27 display MONDAY
num==28){ //if day number is 7 or 14 or 21 or 28 diplay TUESDAY

//if all condition is false display INVALID DAY NUMBER
}
26:52
F1 Help F2 Save F3 Open Alt-F9 Compile F9 Make F10 Menu

```

```

DAYS IN OCTOBER 2025
DAY NUMBER: 1
DAY: WEDNESDAY_

```

```

DAYS IN OCTOBER 2025
DAY NUMBER: 5
DAY: SUNDAY_

```

```
DAYS IN OCTOBER 2025
DAY NUMBER: 2
DAY: THURSDAY_
```

```
DAYS IN OCTOBER 2025
DAY NUMBER: 6
DAY: MONDAY_
```

```
DAYS IN OCTOBER 2025
DAY NUMBER: 3
DAY: FRIDAY
```

```
DAYS IN OCTOBER 2025
DAY NUMBER: 7
DAY: TUESDAY_
```

```
DAYS IN OCTOBER 2025
DAY NUMBER: 4
DAY: SATURDAY
```

```
DAYS IN OCTOBER 2025
DAY NUMBER: 32
INVALID DAY NUMBER
```

9. Create a flowchart to read any day number in integer and display the day name in word format.

```
File Edit Search Run Compile Debug Project Options Window Help
DAYNUM.CPP
#include <iostream.h>
#include <conio.h>
void main (){
clrscr();
int num;
cout<<"DAY NUMBER IN A WEEK";
cout<<"\nDAY NUMBER: ";
cin>>num; //user input for day number
if (num==1){
cout<<"DAY: MONDAY";} //display MONDAY if inputted number is 1
else if (num==2){
cout<<"DAY: TUESDAY";} //display TUESDAY if inputted number is 2
else if (num==3){
cout<<"DAY: WEDNESDAY";} //display WEDNESDAY if inputted number is 3
else if (num==4){
cout<<"DAY: THURSDAY";} //display THURSDAY if inputted number is 4
else if (num==5){
cout<<"DAY: FRIDAY";} //display FRIDAY if inputted number is 5
else if (num==6){
cout<<"DAY: SATURDAY";} //display SATURDAY if inputted number is 6
else if (num==7){
cout<<"DAY: SUNDAY";} //display SUNDAY if inputted number is 7
else { //if all conditions is false print INVALID DAY NUMBER
cout<<"INVALID DAY NUMBER";}
getch();
}
```

```
DAY NUMBER IN A WEEK
DAY NUMBER: 1
DAY: MONDAY
```

```
DAY NUMBER IN A WEEK
DAY NUMBER: 5
DAY: FRIDAY_
```

```
DAY NUMBER IN A WEEK
DAY NUMBER: 2
DAY: TUESDAY
```

```
DAY NUMBER IN A WEEK
DAY NUMBER: 6
DAY: SATURDAY
```

```
DAY NUMBER IN A WEEK
DAY NUMBER: 3
DAY: WEDNESDAY
```

```
DAY NUMBER IN A WEEK
DAY NUMBER: 7
DAY: SUNDAY_
```

```
DAY NUMBER IN A WEEK
DAY NUMBER: 4
DAY: THURSDAY
```

```
DAY NUMBER IN A WEEK
DAY NUMBER: 8
INVALID DAY NUMBER
```

10. Write a flowchart to check whether an alphabet is a vowel or a consonant.

```
VOWEL(selectio...
/storage/emulated/0...

FILE NUMBER(loop)*  new*  VOWEL(selection)*  new
1  #include <iostream>
2  using namespace std;
3  int main(){
4      char n;
5      cout<<"IDENTIFY LETTER WHETHER
  \"VOWEL\" or \"CONSONANT\"<<"\n";
6      cout<<"\tINSERT LETTER: ";
7      cin>>n; //user input
8      if /*any letter inside the condition is vowel*/
  (n=='a' || n=='e' || n=='i' || n=='o' || n=='u' || n=='A' || n=='
  E' || n=='I' || n=='O' || n=='U'){
9          cout<<"\tRESULT: Vowel";}
10     else {
11         cout<<"\tRESULT: Consonant";}
12     return 0;
13 }
```

```
← TAB ⋮
IDENTIFY LETTER WHETHER "VOWEL" or "CONSONANT"
INSERT LETTER: a
RESULT: Vowel
[Program finished]
```

```
← TAB ⋮
IDENTIFY LETTER WHETHER "VOWEL" or "CONSONANT"
INSERT LETTER: A
RESULT: Vowel
[Program finished]
```

```
← TAB ⋮
IDENTIFY LETTER WHETHER "VOWEL" or "CONSONANT"
INSERT LETTER: b
RESULT: Consonant
[Program finished]
```