**1.** Write a C program to accept two integers and check whether they are equal or not.   
Test Data : 15 15 *Expected Output* :   
Number1 and Number2 are equal

#include <stdio.h>

void main()

{

int int1, int2;

printf("Input the values for Number1 and Number2 : ");

scanf("%d %d", &int1, &int2);

if (int1 == int2)

printf("Number1 and Number2 are equal\n");

else

printf("Number1 and Number2 are not equal\n");

}

**2.** Write a C program to check whether a given number is even or odd.   
Test Data : 15  
*Expected Output* :   
15 is an odd integer

#include <stdio.h>

void main()

{

int num1, rem1;

printf("Input an integer : ");

scanf("%d", &num1);

rem1 = num1 % 2;

if (rem1 == 0)

printf("%d is an even integer\n", num1);

else

printf("%d is an odd integer\n", num1);

}

**3.** Write a C program to check whether a given number is positive or negative. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data : 15   
*Expected Output* :  
15 is a positive number

#include <stdio.h>

void main()

{

int num;

printf("Input a number :");

scanf("%d", &num);

if (num >= 0)

printf("%d is a positive number \n", num);

else

printf("%d is a negative number \n", num);

}

**4.** Write a C program to find whether a given year is a leap year or not. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data : 2016   
*Expected Output* :  
2016 is a leap year.

#include <stdio.h>

void main()

{

int chk\_year;

printf("Input a year :");

scanf("%d", &chk\_year);

if ((chk\_year % 400) == 0)

printf("%d is a leap year.\n", chk\_year);

else if ((chk\_year % 100) == 0)

printf("%d is a not leap year.\n", chk\_year);

else if ((chk\_year % 4) == 0)

printf("%d is a leap year.\n", chk\_year);

else

printf("%d is not a leap year \n", chk\_year);

}

**5.** Write a C program to read the age of a candidate and determine whether it is eligible for casting his/her own vote. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data : 21   
*Expected Output* :  
Congratulation! You are eligible for casting your vote.  
#include <stdio.h>

void main()

{

int vote\_age;

printf("Input the age of the candidate : ");

scanf("%d",&vote\_age);

if (vote\_age<18)

{

printf("Sorry, You are not eligible to caste your vote.\n");

printf("You would be able to caste your vote after %d year.\n",18-vote\_age);

}

else

printf("Congratulation! You are eligible for casting your vote.\n");

}

**6.** Write a C program to read the value of an integer m and display the value of n is 1 when m is larger than 0, 0 when m is 0 and -1 when m is less than 0. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data : -5   
*Expected Output* :  
The value of n = -1  
 #include <stdio.h>

void main()

{

int m,n;

printf("Input the value of m :");

scanf("%d",&m);

if(m!=0)

if(m>0)

n=1;

else

n=-1;

else

n=0;

printf("The value of m = %d \n",m);

printf("The value of n = %d \n",n);

}

**7.** Write a C program to accept the height of a person in centimeter and categorize the person according to their height. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data : 135   
*Expected Output* :  
The person is Dwarf.  
 #include <stdio.h>

void main()

{

float PerHeight;

printf("Input the height of the person (in centimetres) :");

scanf("%f", &PerHeight);

if (PerHeight < 150.0)

printf("The person is Dwarf. \n");

else if ((PerHeight >= 150.0) && (PerHeight < 165.0))

printf("The person is average heighted. \n");

else if ((PerHeight >= 165.0) && (PerHeight <= 195.0))

printf("The person is taller. \n");

else

printf("Abnormal height.\n");

}

**8.** Write a C program to find the largest of three numbers. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data : 12 25 52   
*Expected Output* :  
1st Number = 12,        2nd Number = 25,        3rd Number = 52  
The 3rd Number is the greatest among three

**9.** Write a C program to accept a coordinate point in a XY coordinate system and determine in which quadrant the coordinate point lies. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data : 7 9   
*Expected Output* :  
The coordinate point (7,9) lies in the First quadrant.  
 #include <stdio.h>

void main()

{

int co1,co2;

printf("Input the values for X and Y coordinate : ");

scanf("%d %d",&co1,&co2);

if( co1 > 0 && co2 > 0)

printf("The coordinate point (%d,%d) lies in the First quandrant.\n",co1,co2);

else if( co1 < 0 && co2 > 0)

printf("The coordinate point (%d,%d) lies in the Second quandrant.\n",co1,co2);

else if( co1 < 0 && co2 < 0)

printf("The coordinate point (%d, %d) lies in the Third quandrant.\n",co1,co2);

else if( co1 > 0 && co2 < 0)

printf("The coordinate point (%d,%d) lies in the Fourth quandrant.\n",co1,co2);

else if( co1 == 0 && co2 == 0)

printf("The coordinate point (%d,%d) lies at the origin.\n",co1,co2);

}

**10.** Write a C program to find the eligibility of admission for a professional course based on the following criteria: [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Eligibility Criteria : Marks in Maths >=65 and Marks in Phy >=55 and Marks in Chem>=50 and Total in all three subject >=190 or Total in Maths and Physics >=140 -------------------------------------

Input the marks obtained in Physics :65 Input the marks obtained in Chemistry :51 Input the marks obtained in Mathematics :72 Total marks of Maths, Physics and Chemistry : 188

Total marks of Maths and Physics : 137 The candidate is not eligible.

*Expected Output* :  
The candidate is not eligible for admission.

#include <stdio.h>

void main()

{ int p,c,m,t,mp;

printf("Eligibility Criteria :\n");

printf("Marks in Maths >=65\n");

printf("and Marks in Phy >=55\n");

printf("and Marks in Chem>=50\n");

printf("and Total in all three subject >=190\n");

printf("or Total in Maths and Physics >=140\n");

printf("-------------------------------------\n");

printf("Input the marks obtained in Physics :");

scanf("%d",&p);

printf("Input the marks obtained in Chemistry :");

scanf("%d",&c);

printf("Input the marks obtained in Mathematics :");

scanf("%d",&m);

printf("Total marks of Maths, Physics and Chemistry : %d\n",m+p+c);

printf("Total marks of Maths and Physics : %d\n",m+p);

if (m>=65)

if(p>=55)

if(c>=50)

if((m+p+c)>=190||(m+p)>=140)

printf("The candidate is eligible for admission.\n");

else

printf("The candidate is not eligible.\n");

else

printf("The candidate is not eligible.\n");

else

printf("The candidate is not eligible.\n");

else

printf("The candidate is not eligible.\n");

}

**11.** Write a C program to calculate the root of a Quadratic Equation. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data : 1 5 7   
*Expected Output* :  
Root are imaginary;  
No solution.

#include <stdio.h>

#include <math.h>

void main()

{

int a,b,c,d;

float x1,x2;

printf("Input the value of a,b & c : ");

scanf("%d%d%d",&a,&b,&c);

d=b\*b-4\*a\*c;

if(d==0)

{

printf("Both roots are equal.\n");

x1=-b/(2.0\*a);

x2=x1;

printf("First Root Root1= %f\n",x1);

printf("Second Root Root2= %f\n",x2);

}

else if(d>0)

{

printf("Both roots are real and diff-2\n");

x1=(-b+sqrt(d))/(2\*a);

x2=(-b-sqrt(d))/(2\*a);

printf("First Root Root1= %f\n",x1);

printf("Second Root root2= %f\n",x2);

}

else

printf("Root are imeainary;\nNo Solution. \n");

}

**12.** Write a C program to read roll no, name and marks of three subjects and calculate the total, percentage and division. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data :   
Input the Roll Number of the student :784   
Input the Name of the Student :James   
Input the marks of Physics, Chemistry and Computer Application : 70 80 90  
*Expected Output* :  
Roll No : 784   
Name of Student : James   
Marks in Physics : 70   
Marks in Chemistry : 80   
Marks in Computer Application : 90   
Total Marks = 240   
Percentage = 80.00   
Division = First  
 #include <stdio.h>

#include <string.h>

void main()

{

int rl,phy,che,ca,total;

float per;

char nm[20],div[10];

printf("Input the Roll Number of the student :");

scanf("%d",&rl);

printf("Input the Name of the Student :");

scanf("%s",nm);

printf("Input the marks of Physics, Chemistry and Computer Application : ");

scanf("%d%d%d",&phy,&che,&ca);

total = phy+che+ca;

per = total/3.0;

if (per>=60)

strcpy(div,"First");

else

if (per<60&&per>=48)

strcpy(div,"Second");

else

if (per<48&&per>=36)

strcpy(div,"Pass");

else

strcpy(div,"Fail");

printf("\nRoll No : %d\nName of Student : %s\n",rl,nm);

printf("Marks in Physics : %d\nMarks in Chemistry : %d\nMarks in Computer Application : %d\n",phy,che,ca);

printf("Total Marks = %d\nPercentage = %5.2f\nDivision = %s\n",total,per,div);

}

**13.** Write a C program to read temperature in centigrade and display a suitable message according to temperature state below : [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
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   
Test Data :   
42   
*Expected Output* :  
Its very hot.  
 #include <stdio.h>

void main()

{

int tmp;

printf("Input days temperature : ");

scanf("%d",&tmp);

if(tmp<0)

printf("Freezing weather.\n");

else if(tmp<10)

printf("Very cold weather.\n");

else if(tmp<20)

printf("Cold weather.\n");

else if(tmp<30)

printf("Normal in temp.\n");

else if(tmp<40)

printf("Its Hot.\n");

else

printf("Its very hot.\n");

}

**14.** Write a C program to check whether a triangle is Equilateral, Isosceles or Scalene. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data :   
50 50 60   
*Expected Output* :  
This is an isosceles triangle.

Before writing the program, we should know the properties of isosceles, equilateral, and scalene triangles.

**Isosceles triangle:** In geometry, an isosceles triangle is a triangle that has two sides of equal length.

**Equilateral triangle:** In geometry, an equilateral triangle is a triangle in which all three sides are equal.

**Scalene triangle:** A scalene triangle is a triangle that has three unequal sides.

#include <stdio.h>

int main()

{

int sidea, sideb, sidec; //are three sides of a triangle

/\*

\* Reads all sides of a triangle

\*/

printf("Input three sides of triangle: ");

scanf("%d %d %d", &sidea, &sideb, &sidec);

if(sidea==sideb && sideb==sidec) //check whether all sides are equal

{

printf("This is an equilateral triangle.\n");

}

else if(sidea==sideb || sidea==sidec || sideb==sidec) //check whether two sides are equal

{

printf("This is an isosceles triangle.\n");

}

else //check whether no sides are equal

{

printf("This is a scalene triangle.\n");

}

return 0;

}

**15.** Write a C program to check whether a triangle can be formed by the given value for the angles. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data :   
40 55 65

Let’s say that a, b, c is the sides of the triangle. So it must satisfy the below criteria :

1. a + b > c
2. a + c > b
3. b + c > a

*Expected Output* :  
The triangle is not valid.  
 #include <stdio.h>

void main()

{

int anga, angb, angc, sum; //are three angles of a triangle

printf("Input three angles of triangle : ");

scanf("%d %d %d", &anga, &angb, &angc);

/\* Calculate the sum of all angles of triangle \*/

sum = anga + angb + angc;

/\* Check whether sum=180 then its a valid triangle otherwise not \*/

if(sum == 180)

{

printf("The triangle is valid.\n");

}

else

{

printf("The triangle is not valid.\n");

}

}

**16.** Write a C program to check whether a character is an alphabet, digit or special character. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data :   
@  
*Expected Output* :  
This is a special character.  
 #include <stdio.h>

int main()

{

char sing;

printf("Input a character: ");

scanf('%c', &sing);

/\* Checks whether it is an alphabet \*/

if((sing>='a' && sing<='z') || (sing>='A' && sing<='Z'))

{

printf("This is an alphabet.\n");

}

else if(sing>='0' && sing<='9') /\* whether it is digit \*/

{

printf("This is a digit.\n");

}

else /\* Else special character \*/

{

printf("This is a special character.\n");

}

}

**17.** Write a C program to check whether an alphabet is a vowel or consonant. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data :   
k  
*Expected Output* :  
The alphabet is a consonant.  
 #include <stdio.h>

void main()

{

char sing;

printf("Input any alphabet : ");

scanf("%c", &sing);

if(sing=='a' || sing=='e' || sing=='i' || sing=='o' || sing=='u' || sing=='A' || sing=='E' || sing=='I' || sing=='O'

|| sing=='U')

{

printf("The alphabet is a vowel.\n");

}

else if((sing>='a' && sing<='z') || (sing>='A' && sing<='Z'))

{

printf("The alphabet is a consonant.\n");

}

else

{

printf("The character is not an alphabet.\n");

}

}

**18.** Write a C program to calculate profit and loss on a transaction. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data :   
500 700  
*Expected Output* :  
You can booked your profit amount : 200

#include <stdio.h>

void main()

{

int cprice,sprice, plamt; //cprice is Cost Price and sprice is Selling Price, plamt denotes total profit/loss

printf("Input Cost Price: ");

scanf("%d", &cprice);

printf("Input Selling Price: ");

scanf("%d", &sprice);

if(sprice>cprice) //calculate profit

{

plamt = sprice-cprice;

printf("\nYou can booked your profit amount : %d\n", plamt);

}

else if(cprice>sprice) //calculate loss

{

plamt = cprice-sprice;

printf("\nYou got a loss of amount : %d\n", plamt);

}

else //No Profit No Loss

{

printf("\nYou are running in no profit no loss condition.\n");

}

}

**19.** Write a program in C to calculate and print the Electricity bill of a given customer. The customer id., name and unit consumed by the user should be taken from the keyboard and display the total amount to pay to the customer. The charge are as follow : [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

|  |  |
| --- | --- |
| **Unit** | **Charge/unit** |
| upto 199 | @1.20 |
| 200 and above but less than 400 | @1.50 |
| 400 and above but less than 600 | @1.80 |
| 600 and above | @2.00 |

If bill exceeds Rs. 400 then a surcharge of 15% will be charged and the minimum bill should be of Rs. 100/-

Test Data :   
1001  
James   
800   
*Expected Output* :  
Customer IDNO :1001   
Customer Name :James   
unit Consumed :800   
Amount Charges @Rs. 2.00 per unit : 1600.00   
Surchage Amount : 240.00   
Net Amount Paid By the Customer : 1840.00

#include <stdio.h>

#include <string.h>

void main()

{

int custid, conu;

float chg, surchg=0, gramt,netamt;

char connm[25];

printf("Input Customer ID :");

scanf("%d",&custid);

printf("Input the name of the customer :");

scanf("%s",connm);

printf("Input the unit consumed by the customer : ");

scanf("%d",&conu);

if (conu <200 )

chg = 1.20;

else if (conu>=200 && conu<400)

chg = 1.50;

else if (conu>=400 && conu<600)

chg = 1.80;

else

chg = 2.00;

gramt = conu\*chg;

if (gramt>300)

surchg = gramt\*15/100.0;

netamt = gramt+surchg;

if (netamt < 100)

netamt =100;

printf("\nElectricity Bill\n");

printf("Customer IDNO :%d\n",custid);

printf("Customer Name :%s\n",connm);

printf("unit Consumed :%d\n",conu);

printf("Amount Charges @Rs. %4.2f per unit :%8.2f\n",chg,gramt);

printf("Surchage Amount :%8.2f\n",surchg);

printf("Net Amount Paid By the Customer :%8.2f\n",netamt);

}

**20.** Write a program in C to accept a grade and declare the equivalent description : [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

|  |  |
| --- | --- |
| **Grade** | **Description** |
| E | Excellent |
| V | Very Good |
| G | Good |
| A | Average |
| F | Fail |

#include <stdio.h>

#include <ctype.h>

#include <string.h>

void main()

{

char notes[15];

char grd;

printf("Input the grade :");

scanf(" %c", &grd);

grd = toupper(grd);

switch(grd)

{

case 'E':

strcpy(notes, " Excellent");

break;

case 'V':

strcpy(notes, " Very Good");

break;

case 'G':

strcpy(notes, " Good ");

break;

case 'A':

strcpy(notes, " Average");

break;

case 'F':

strcpy(notes, " Fails");

break;

default :

strcpy(notes, "Invalid Grade Found. \n");

break;

}

printf("You have chosen : %s\n", notes);

}

**21.** Write a program in C to read any day number in integer and display day name in the word. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data :   
4  
*Expected Output* :  
Thursday  
 #include <stdio.h>

void main()

{

int dayno;

printf("Input Day No : ");

scanf("%d",&dayno);

switch(dayno)

{

case 1:

printf("Monday \n");

break;

case 2:

printf("Tuesday \n");

break;

case 3:

printf("Wednesday \n");

break;

case 4:

printf("Thursday \n");

break;

case 5:

printf("Friday \n");

break;

case 6:

printf("Saturday \n");

break;

case 7:

printf("Sunday \n");

break;

default:

printf("Invalid day number. \nPlease try again ....\n");

break;

}

}

**22.** Write a program in C to read any digit, display in the word. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data :   
4  
*Expected Output* :  
Four  
 #include <stdio.h>

void main()

{

int cdigit;

printf("Input Digit(0-9) : ");

scanf("%d",&cdigit);

switch(cdigit)

{

case 0:

printf("Zero\n");

break;

case 1:

printf("one\n");

break;

case 2:

printf("Two\n");

break;

case 3:

printf("Three\n");

break;

case 4:

printf("Four\n");

break;

case 5:

printf("Five\n");

break;

case 6:

printf("Six\n");

break;

case 7:

printf("Seven\n");

break;

case 8:

printf("Eight\n");

break;

case 9:

printf("Nine\n");

break;

default:

printf("invalid digit. \nPlease try again ....\n");

break;

}

}

**23.** Write a program in C to read any Month Number in integer and display Month name in the word. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data :   
4  
*Expected Output* :  
April  
 #include <stdio.h>

void main()

{

int monno;

printf("Input Month No : ");

scanf("%d",&monno);

switch(monno)

{

case 1:

printf("January\n");

break;

case 2:

printf("February\n");

break;

case 3:

printf("March\n");

break;

case 4:

printf("April\n");

break;

case 5:

printf("May\n");

break;

case 6:

printf("June\n");

break;

case 7:

printf("July\n");

break;

case 8:

printf("August\n");

break;

case 9:

printf("September\n");

break;

case 10:

printf("October\n");

break;

case 11:

printf("November\n");

break;

case 12:

printf("December\n");

break;

default:

printf("invalid Month number. \nPlease try again ....\n");

break;

}

}

**24.** Write a program in C to read any Month Number in integer and display the number of days for this month. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data :   
7   
*Expected Output* :  
Month have 31 days  
 #include <stdio.h>

void main()

{

int monno;

char monnm[15];

printf("Input Month No : ");

scanf("%d",&monno);

switch(monno)

{

case 1:

case 3:

case 5:

case 7:

case 8:

case 10:

case 12:

printf("Month have 31 days. \n");

break;

case 2:

printf("The 2nd month is a February and have 28 days. \n");

printf("in leap year The February month Have 29 days.\n");

break;

case 4:

case 6:

case 9:

case 11:

printf("Month have 30 days. \n");

break;

default:

printf("invalid Month number.\nPlease try again ....\n");

break;

}

}

**25.** Write a program in C which is a Menu-Driven Program to compute the area of the various geometrical shape. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data :   
1  
5  
*Expected Output* :  
The area is : 78.500000

#include <stdio.h>

void main ()

{

int choice,r,l,w,b,h;

float area;

printf("Input 1 for area of circle\n");

printf("Input 2 for area of rectangle\n");

printf("Input 3 for area of triangle\n");

printf("Input your choice : ");

scanf("%d",&choice);

switch(choice)

{

case 1:

printf("Input radious of the circle : ");

scanf("%d",&r);

area=3.14\*r\*r;

break;

case 2:

printf("Input length and width of the rectangle : ");

scanf("%d%d",&l,&w);

area=l\*w;

break;

case 3:

printf("Input the base and hight of the triangle :");

scanf("%d%d",&b,&h);

area=.5\*b\*h;

break;

}

printf("The area is : %f\n",area);

}

**26.** Write a program in C which is a Menu-Driven Program to perform a simple calculation. [.](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)  
Test Data :   
10  
2  
3  
*Expected Output* :  
The Multiplication of 10 and 2 is: 20

#include <stdio.h>

void main() {

int num1,num2,opt;

printf("Enter the first Integer :");

scanf("%d",&num1);

printf("Enter the second Integer :");

scanf("%d",&num2);

printf("\nInput your option :\n");

printf("1-Addition.\n2-Substraction.\n3-Multiplication.\n4-Division.\n5-Exit.\n");

scanf("%d",&opt);

switch(opt) {

case 1:

printf("The Addition of %d and %d is: %d\n",num1,num2,num1+num2);

break;

case 2:

printf("The Substraction of %d and %d is: %d\n",num1,num2,num1-num2);

break;

case 3:

printf("The Multiplication of %d and %d is: %d\n",num1,num2,num1\*num2);

break;

case 4:

if(num2==0) {

printf("The second integer is zero. Devide by zero.\n");

} else {

printf("The Division of %d and %d is : %d\n",num1,num2,num1/num2);

}

break;

case 5:

break;

default:

printf("Input correct option\n");

break;

}

}

27 Write a C program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade according to following:  
Percentage >= 90% : Grade A  
Percentage >= 80% : Grade B  
Percentage >= 70% : Grade C  
Percentage >= 60% : Grade D  
Percentage >= 40% : Grade E  
Percentage < 40% : Grade F

#include <stdio.h>

int main()

{

int phy, chem, bio, math, comp;

float per;

/\* Input marks of five subjects from user \*/

printf("Enter five subjects marks: ");

scanf("%d%d%d%d%d", &phy, &chem, &bio, &math, &comp);

/\* Calculate percentage \*/

per = (phy + chem + bio + math + comp) / 5.0;

printf("Percentage = %.2f\n", per);

/\* Find grade according to the percentage \*/

if(per >= 90)

{

printf("Grade A");

}

else if(per >= 80)

{

printf("Grade B");

}

else if(per >= 70)

{

printf("Grade C");

}

else if(per >= 60)

{

printf("Grade D");

}

else if(per >= 40)

{

printf("Grade E");

}

else

{

printf("Grade F");

}

return 0;

}

28 [Write a C program to input basic salary of an employee and calculate its Gross salary according to following:](https://codeforwin.org/2015/05/c-program-to-calculate-gross-salary-of-employee.html)  
Basic Salary <= 10000 : HRA = 20%, DA = 80%  
Basic Salary <= 20000 : HRA = 25%, DA = 90%  
Basic Salary > 20000 : HRA = 30%, DA = 95%

#include <stdio.h>

int main()

{

float basic, gross, da, hra;

/\* Input basic salary of employee \*/

printf("Enter basic salary of an employee: ");

scanf("%f", &basic);

/\* Calculate D.A and H.R.A according to specified conditions \*/

if(basic <= 10000)

{

da = basic \* 0.8;

hra = basic \* 0.2;

}

else if(basic <= 20000)

{

da = basic \* 0.9;

hra = basic \* 0.25;

}

else

{

da = basic \* 0.95;

hra = basic \* 0.3;

}

/\* Calculate gross salary \*/

gross = basic + hra + da;

printf("GROSS SALARY OF EMPLOYEE = %.2f", gross);

return 0;

}

 Write a C program to input electricity unit charges and calculate total electricity bill according to the given condition:  
For first 50 units Rs. 0.50/unit  
For next 100 units Rs. 0.75/unit  
For next 100 units Rs. 1.20/unit  
For unit above 250 Rs. 1.50/unit  
An additional surcharge of 20% is added to the bill

#include <stdio.h>

int main()

{

int unit;

float amt, total\_amt, sur\_charge;

/\* Input unit consumed from user \*/

printf("Enter total units consumed: ");

scanf("%d", &unit);

/\* Calculate electricity bill according to given conditions \*/

if(unit <= 50)

{

amt = unit \* 0.50;

}

else if(unit <= 150)

{

amt = 25 + ((unit-50) \* 0.75);

}

else if(unit <= 250)

{

amt = 100 + ((unit-150) \* 1.20);

}

else

{

amt = 220 + ((unit-250) \* 1.50);

}

/\*

\* Calculate total electricity bill

\* after adding surcharge

\*/

sur\_charge = amt \* 0.20;

total\_amt = amt + sur\_charge;

printf("Electricity Bill = Rs. %.2f", total\_amt);

return 0;

}