1. Write a C program to check whether a given number is even or odd.

#include<stdio.h>

#include<math.h>

int main()

{

int a;

printf("Enter a number ");

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

if (a%2==0)

printf("Even Number");

else

printf("Odd Number");

return 0;

}

1. Write a C program to find the largest of three numbers.

#include<stdio.h>

#include<math.h>

int main()

{

int a,b,c,d;

printf("Enter three numbers a,b,c");

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

if((a>b)&&(a>c))

d=a;

else if(b>c)

d=b;

else

d=c;

printf("The greatest of the three numbers is %d ", d);

return 0;

}

1. Write a C program to find whether a given year is a leap year or not.

#include<stdio.h>

#include<math.h>

#include<string.h>

int main()

{

int year;

printf("Enter a year");

scanf("%d",&year);

if(year%4==0)

printf("Leap Year");

else

printf("Not leap year");

return 0;

}

1. Write a C program to accept a coordinate point in a XY coordinate system and. determine in which quadrant the coordinate point lies.

#include<stdio.h>

#include<math.h>

int main()

{

int x,y;

char c;

printf("Enter x and y coordinates ");

scanf("%d%d", &x,&y);

if (x>0)

{

if (y>0)

c='1';

else

c='2';

}

else

{

if (y>0)

c='4';

else

c='3';

}

printf("The given x and y coordinate lies in %c quadrant",c);

return 0;

}

1. Write a C program to read roll no, name and marks of three subjects and calculate the total,

percentage and the grade. Use if-else-if ladder.

Percentage from 90 to 100: O grade

Percentage from 80 to 89: A grade.

Percentage from 70 to 79: B grade.

Percentage from 60 to 69 : C grade

Percentage from 50 to 59: D grade.

Percentage from 40 to 49: Pass.

Below 40: Fail.

**Test Data :**

Input the Roll Number of the student :784

Input the Name of the Student :Ram

Input the marks of Physics, Chemistry and Computer Application : 70 80 90

***Expected Output* :**

Roll No : 784

Name of Student : Ram

Marks in Physics : 70

Marks in Chemistry : 80

Marks in Computer Application : 90

Total Marks = 240

Percentage = 80.00

Grade = A.

#include <stdio.h>

int main()

{

int a,b,c,d,e,f;

char s[20];

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

scanf("%d",&a);

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

scanf("%s",s);

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

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

e=b+c+d;

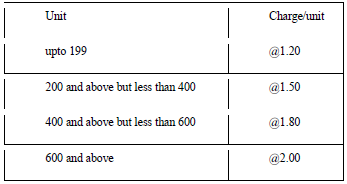
f=e/3;

printf("Roll No: %d \n Name of the Student: %s\n Marks in Physics: %d \n Marks in Chemistry: %d\n Marks in computer application; %d\n Total Marks =%d \n Percentage=%d\n Grade=A",a,s,b,c,d,e,f);

return 0;

}

1. 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 :



#include <stdio.h>

int main()

{

int id;

char name[20];

float a,c,s;

printf("Enter customer id");

scanf("%d",&id);

printf("Enter customer name");

scanf("%s",name);

printf("Enter number of units");

scanf("%f",&a);

if(a<200)

c=a\*1.20;

else if(a<400)

c=240+(a-200)\*1.50;

else if(a<600)

{ c=540+(a-400)\*1.80;

s=(15/100)\*c;

}

else

{ c=900+(a-600)\*2.00;

s=(15/100)\*c;}

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

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

printf("unit consumed : %f\n",a);

printf("The electricity bill is %f\n",c);

printf("The subcharge amount is %f\n",s);

printf("Net amount paid by the user : %f\n",c+s);

return 0;

}

1. Write a program in C to read any Month Number in integer and display the number of

days for this month. Use switch-case.

#include <stdio.h>

int main()

{

int a;

printf("Enter month number ");

scanf("%d",&a);

switch(a)

{

case 1:

printf("January");

break;

case 2:

printf("February");

break;

case 3:

printf("March");

break;

case 4:

printf("April");

break;

case 5:

printf("May");

break;

case 6:

printf("June");

break;

case 7:

printf("July");

break;

case 8:

printf("August");

break;

case 9:

printf("September");

break;

case 10:

printf("October");

break;

case 11:

printf("November");

break;

case 12:

printf("December");

break;

default:

printf("Input Wrong");

main();

break;

}

return 0;

}

1. **Sum**

You are given three integers a, b, and c. Determine if one of them is the sum of the other two.

**Input**

The input consists of three integers a, b, c (0≤a,b,c≤20).

**Output**

Output "YES" if one of the numbers is the sum of the other two, and "NO" otherwise.

**Example**

**Input**

1 4 3

**Output**

YES

**Input**

2 5 8

**Output**

NO

**Input**

9 11 20

**Output**

YES

**Note :** In the first test case, 1+3=4 . In the second test case, none of the numbers is the sum of the other two. In the third test case, 9+11=20.

#include <stdio.h>

int main()

{

int a,b,c;

for(int i=0;i<3;i++);

{

printf("Enter 3 values ");

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

if(c==(a+b))

printf("YES");

else if(b==(c+a))

printf("YES");

else if(a==(b+c))

printf("YES");

else

printf("NO");

}

return 0;

}

1. Two friends are on the coordinate line, at points with integer coordinates. One of them is at the point a and the other is at the point, b. They can move along the line in any direction unlimited number of times. When a friend moves his tiredness changes according to the following rules: The first move increases the tiredness by 1, the second move increases the tiredness by 2, the third by 3 and so on. For example, if a friend moves first to the left, then to the right (returning to the same point), and then again to the left his tiredness becomes equal to 1+2+3=6. The friends want to meet at a integer point with minimum total tiredness. Find the total minimum tiredness they will have.

#include <stdio.h>

#include<math.h>

int main() {

int a,b,c,d,e,i=1,s=0,f,g,h,p=0;

printf("Enter x and y coordinate of both points and point where you want to meet");

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

g=pow((pow((e-a),2)+pow((f-b),2)),(1/2));

for(int j=0;i<g;j++)

{

s=s+i;

i++;

}

i=1;

h=pow((pow((e-c),2)+pow((f-d),2)),(1/2));

for(int j=0;i<g;j++)

{

p=s+i;

i++;

}

printf("One has tiredness %d and other has tiredness of %d",s,p);

return 0;

}