18/sci01/001

1) write a program to check whether a year is a leap or not

Answer

#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);

}

2) a C program to find the maximum between 3 numbers

#include <stdio.h>

void main()

{

int num1, num2, num3;

printf("Enter the values of num1, num2 and num3\n");

scanf("%d %d %d", &num1, &num2, &num3);

printf("num1 = %d\tnum2 = %d\tnum3 = %d\n", num1, num2, num3);

if (num1 > num2)

{

if (num1 > num3)

{

printf("num1 is the greatest among three \n");

}

else

{

printf("num3 is the greatest among three \n");

}

}

else if (num2 > num3)

printf("num2 is the greatest among three \n");

else

printf("num3 is the greatest among three \n");

}

3) a program that calculates percentage ,GPA,and grade of a student

#include<stdio.h>

#include<conio.h>

void main()

{

int no, i;

float marks[10], per=0, total=0;

clrscr();

printf("Enter number of subject: ");

scanf("%d",&no);

printf("Enter marks of %d subject: ",no);

for(i=0; i<no; i++)

{

scanf("%f",&marks[i]);

}

for(i=0; i<no; i++)

{

total=total+marks[i];

}

per=total/no;

printf("Percentage: %f % \n",per);

if(per>85) {

printf("A grade");

}

else if(per<85 && per>=75)

{

printf("B grade");

}

else if(per<75 && per>=50)

{

printf("C grade");

}

else if(per<50 && per>=30)

{

printf("D grade");

}

else

{

printf("Fail");

}

getch();

}

To calculate grade of student

#include<stdio.h>

#include<conio.h>

void main()

{

char grade;

int no, i;

float marks[10], per=0, total=0;

clrscr();

printf("Enter number of subject: ");

scanf("%d",&no);

printf("Enter marks of %d subject: ",no);

for(i=0; i<no; i++)

{

scanf("%f",&marks[i]);

}

for(i=0; i<no; i++)

{

total=total+marks[i];

}

per=total/no;

printf("Percentage: %f % \n",per);

if(per>85)

{

grade='A';

}

else if(per<85 && per>=75)

{

grade='B';

}

else if(per<75 && per>=50)

{

grade='C';

}

else if(per<50 && per>=30)

{

grade='D';

}

else

{

grade='F';

}

printf("You got: %c Grade",grade);

getch();

}