**MBATO CHIZULE TEDDY**

**18/sci01/089**

1. **A PROGRAM TO CHECK FOR LEAP YEAR**

 #include <stdio.h>

Intyr;

printf(“Enter a year\n”);

scanf (“%d,&yr”)

if(yr%4==0){

if(yr%100==0){

if(yr%400==0)

 printf(“\n It is LEAP YEAR”);

else

printf(“\n It is NOT LEAP YEAR”);

}

else{

 printf(“\n It is LEAP YEAR”);

}

}

else

printf(“\n It is NOT LEAP YEAR”);

return 0;

1. **.A PROGRAM TO FIND THE MAXIMUM OF THREE NUMBERS**

#include<stdio.h>

Int main(){

 double n1,n2,n3;

printf(“Enter three different numbers:”);

scanf(“%If %If %If”,&n1,&n2,&n3);

if(n1>= n2 && n1 >= n3)

Intf(“%.2f is the largest number.”,n1);

if(n2>= n1 && n2 >= n3)

Intf(“%.2f is the largest number.”,n2);

if(n3>= n1 && n3 >= n2)

Intf(“%.2f is the largest number.”,n3);

return 0;

}

1. **A PROGRAM FOR GRADING SYSTEM**

#include<stdio.h>

#include<stdlib.h>

#include<string.h>

Int main() {

 char str[100],ch;

 int i ,grade[7];

 float credit [7], gpa=0.0, totCredit=0.0;

/\* get the letter grade and credits from the user \*/

printf (“Letter Grade and Credits for each subject:\n”);

for (1=0;1<7;i++) {

 printf(“Subject %d(Grade Credit);”,1+1);

 ch =getchar();

 grade(1)=ch;

 scanf(“%f”),&credit(1));

 getchar();

}

printf(“\nSubject| Grade | Credit\n”);

for (1 = 0; 1 < 7; 1++) (

 switch(grade(1))(

 case’A’:

 gpa = gpa + 5\*credit (1);

 totCredit=totCredit+credit(1);

 break;

 case’B’:

 gpa = gpa + 4 \* credit(1);

 totCredit = totCredit + credit()1;

 break;

 case’C’:

 gpa = gpa + 3 \* credit(1);

 totCredit = totCredit + credit(1);

 break;

 case’D’:

 gpa = gpa + 2 \* credit(1);

 totCredit = totCredit + credit(1);

 break;

 case’F’:

 gpa = gpa + 1 \* credit(1);

 totCredit = totCredit + credit(1);

 break;

 default:

 printf(“Given Wrong Grade!!\n”);

 exit(0);

}

}

printf(“GPA: %f\tcredit:%f\n”,gpa,totCredit);

gpa = gpa / totCredit;

printf(“GPA for your score: %.2f\n”,gpa);

return 0;

}