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**17/SCI01/027**

**CSC 206 Assignment**

1.) #include <stdio.h>

int main() {

 int year;

 printf("Enter a year: ");

 scanf("%d", &year);

 if (year % 4 == 0) {

 if (year % 100 == 0) {

 // the year is a leap year if it is divisible by 400.

 if (year % 400 == 0)

 printf("%d is a leap year.", year);

 else

 printf("%d is not a leap year.", year);

 } else

 printf("%d is a leap year.", year);

 } else

 printf("%d is not a leap year.", year);

 return 0;

}

2.) #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 max among three \n");

}

else

 {

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

 } }

 else if (num2 > num3)

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

 else

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

3.) #include <stdio.h>

#include <stdlib.h>

#include <string.h>

int main(){

 char str[100], ch;

 int i, grade[5];

 float credit[5], gpa=0.0, totCredit= 0.0;

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

 for(i=0; i<5;i++){

 printf("Subject %d(Grade|Credit):",i+1);

 ch = getchar();

 grade[i]= ch;

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

 getchar();

 }

 printf("\nSubject | Grade |Credit\n");

 for(i=0; i<5;i++){

 printf(" %d | %c | %.0f\n ", i + 1, grade[i],credit[i]);

 }

 for(i=0; i<5;i++){

 switch(grade[i]){

 case 'A':

 gpa = gpa + 5 \* credit[i];

 totCredit = totCredit + credit[i];

 break;

 case 'B':

 gpa = gpa + 4 \* credit[i];

 totCredit = totCredit + credit[i];

 break;

 case 'C':

 gpa = gpa + 3 \* credit[i];

 totCredit = totCredit + credit[i];

 break;

 case 'D':

 gpa = gpa + 2 \* credit[i];

 totCredit = totCredit + credit[i];

 break;

 case 'F':

 gpa = gpa + 0 \* credit[i];

 totCredit = totCredit + credit[i];

 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;

}