**Isaiah Dyaji**

**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;

}