NAME: PAUL SUNDAY

MATRIC: 18/SCI01/090

DEPARTMENT : COMPUTER SCIENCE

**1.#include <stdio.h>**

**int main(){**

**int y;**

**printf("enter the year:\n");**

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

**if (y % 4==0)**

**printf("this is a leap year :%d",y);**

**else if (y % 100== 0)**

**printf("this is not a leap year :%d",y);**

**else if (y % 400 == 0)**

**printf("this is a leap year:%d",y);**

**else**

**printf("this is not a leap year ");**

**return 0 ;**

**}**

**QUESTION 2**

**#include <stdio.h>**

**int main (){**

**int a,b,c;**

**printf("enter the first number\n");**

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

**printf(" enter the second number\n");**

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

**printf("enter the third number\n");**

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

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

**printf(" the biggest number is :%d",a);**

**}**

**else if (b>a&&b>c){**

**printf("the biggest number is :%d",b);**

**}**

**else {**

**printf("the biggest number is :%d",c);**

**}**

**}**

**QUESTION 3**

**#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;**

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

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

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

**ch = getchar();**

**grade[i] = ch;**

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

**getchar();**

**}**

**/\* print the input grades and credits \*/**

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

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

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

**}**

**/\* calculate gpa value \*/**

**for (i = 0; i < 7; 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 'E':**

**gpa = gpa + 1 \* 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;**

**}**