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;**

 **}**