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18/SCI01/015

**QUESTION 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;

 }