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18/SCI01/014

**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;

}