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18/SCI01/076

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;  
}
```