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18/SCI01/007

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;  
}
```