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18/SCI01/013

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;
}
```