

ORAKPO MIRABEL

18/SCI01/074

*Number 1

```
#include <stdio.h>
```

```
int main() {
```

```
    int year;
```

```
    printf("Enter a year: ");
```

```
    scanf("%d", &year);
```

```
    if (year % 4 == 0) {
```

```
        if (year % 100 == 0) {
```

```
            // the year is a leap year if it is divisible by 400.
```

```
            if (year % 400 == 0)
```

```
                printf("%d is a leap year.", year);
```

```
            else
```

```
                printf("%d is not a leap year.", year);
```

```
        } else
```

```
            printf("%d is a leap year.", year);
```

```
    } else
```

```
        printf("%d is not a leap year.", year);
```

```
    return 0;
```

```
}
```

```
*Number 2

#include <stdio.h>

void main()
{
    int num1, num2, num3;

    printf("Enter the values of num1, num2 and num3\n");

    scanf("%d %d %d", &num1, &num2, &num3);

    printf("num1 = %d\t num2 = %d\t num3 = %d\n", num1, num2, num3);

    if (num1 > num2)
    {
        if (num1 > num3)
        {
            printf("num1 is the max among three \n");
        }
        else
        {
            printf("num3 is the max among three \n");
        }
    }
    else if (num2 > num3)
        printf("num2 is the max among three \n");
    else
        printf("num3 is the max among three \n");
```

*Number 3

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <string.h>
```

```
int main(){
```

```
    char str[100], ch;
```

```
    int i, grade[5];
```

```
    float credit[5], gpa=0.0, totCredit= 0.0;
```

```
    printf("Letter Grade and Credits for each subject: \n");
```

```
    for(i=0; i<5;i++){
```

```
        printf("Subject %d(Grade|Credit):",i+1);
```

```
        ch = getchar();
```

```
        grade[i]= ch;
```

```
        scanf("%f", &credit[i]);
```

```
        getchar();
```

```
    }
```

```
    printf("\nSubject | Grade |Credit\n");
```

```
    for(i=0; i<5;i++){
```

```
        printf(" %d | %c | %.0f\n ", i + 1, grade[i],credit[i]);
```

```
    }
```

```
for(i=0; i<5;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 '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;
```

```
}
```