

```
1 #include<stdio.h>
2 int main(){
3     int year;
4     printf("Enter the year : ");
5     scanf("%d", &year);
6     if ((year%4==0) && (year%100!=0) || (year%400==0))
7         printf("%d is a leap year", year);
8
9     else
10        printf("%d is not a leap year", year);
11
12
13
14    return 0;
15 }
16
17
```



```
1 #include<stdio.h>
2 int main(){
3     char ch;
4     printf("Enter number or char : ");
5     scanf("%c", &ch);
6
7     if((ch>= 'a' && ch<='z') || (ch>= 'A' && ch<='Z'))
8
9
10        printf("%c is an alphabet \n", ch);
11    else if((ch>= '0' && ch<='9'))
12
13        printf("%c is a digit \n", ch);
14
15    else
16        printf("Pls enter valid input \n");
17
18
19
20
21    return 0;
22 }
```



```
1 #include<stdio.h>
2 int main(){
3     int a,b,c,max;
4     printf("Enter 3 numbers : ");
5     scanf("%d %d %d", &a, &b, &c);
6
7     if(a>=b && a>=c)
8         max = a;
9
10    else if(b>=a && b>=c)
11        max = b;
12
13    else if(c>=a && c>=b)
14        max = c;
15
16    else
17        printf("Enter valid input");
18
19
20    printf("Maxima is %d", max);
21
22
23    return 0;
24
```



```
1 #include<stdio.h>
2 int main(){
3     int a,b,c,max;
4     printf("Enter 3 numbers : ");
5     scanf("%d %d %d", &a, &b, &c);
6
7     max = a>b ? (a>c ? a:c):(b>c? b:c);
8
9
10    printf("Maxima is %d", max);
11
12
13    return 0;
14 }
```



```
1 #include<stdio.h>
2 int main(){
3     int a,b,c,d,e,total;
4     float avg;
5     printf("Enter 5 marks : ");
6     scanf("%d %d %d %d %d", &a,&b,&c,&d,&e);
7     total = a+b+c+d+e;
8     printf("Total marks is %d \n", total);
9     avg = total/5;
10    printf("Average avg is %.2f \n", avg);
11
12    if(avg>=90)
13        printf("Grade A+");
14    else if(avg>=80 && avg<90)
15        printf("Grade A");
16    else if(avg>=70 && avg<80)
17        printf("Grade B");
18    else if(avg>=60 && avg<70)
19        printf("Grade C");
20    else if(avg>=50 && avg<60)
21        printf("Grade D");
22    else if(avg<50)
23        printf("Grade F");
24    return 0;
25 }
```



```
1 #include<stdio.h>
2 int main(){
3     char ch;
4     printf("Enter a char : ");
5     scanf("%c", &ch);
6     switch (ch){
7
8         case 'a':
9         case 'e':
10        case 'i':
11        case 'o':
12        case 'u':
13        case 'A':
14        case 'E':
15        case 'I':
16        case 'O':
17        case 'U':
18            printf("%c is a vowel \n", ch);
19            break;
20        default:
21            printf("%c is a consonant \n", ch);
22        }
23
24    return 0;
25 }
```