1. Write a C program to input three numbers and determine which one is largest.

⇒
```
#include <stdio.h>
int main ( ) {
 int a, b, c;
 printf ("Enter three numbers: ");
 scanf ("%d %d %d", &a, &b, &c);
 if (a>=b && a>=c){
 printf ("%d is the largest number.\n", a); }
 else if (b>=a && b>=c) {
 printf ("%d is the largest number.\n", b); }
 else {
 printf("%d is the largest number.\n", c); }
 return 0;
}
```

2. Write a C program that accepts a no. from the user and displays whether it is positive, negative, or zero.

⇒
```
#include <stdio.h>
int main() {
int num;
printf ("Enter a number: ");
scanf ("%d", &num);
if (num>0) {
 printf ("The number is positive.\n"); }
else if (num<0) {
 printf ("The number is negative.\n"); }
else {
 printf ("The number is zero.\n"); }
 return 0;
 }
```

3. Write a C program to check whether a given year is leap or not.

```
#include <stdio.h>
int main () {
printf ("Enter a year: ");
scanf ("%d", &year);
if ((year % 400 == 0) || (year % 4 == 0
&& year % 100 != 0)) {
printf ("%d is a leap year.\n", year); }
else {
printf ("%d is not a leap year.\n", year); }
return 0;
}
```

4. Write a C program to calculate the electricity bill based on the following conditions:

Upto 100 units ⟶ ₹ 1.5 per unit
101 to 200 units ⟶ ₹ 2 per unit
201 to 300 units ⟶ ₹ 3 per unit
Above 300 units ⟶ ₹ 5 per unit.

```
#include <stdio.h>
int main () {
int units;
float bill;
printf ("Enter total electricity units consumed: ");
scanf ("%d", &units);
if (units <=100) {
    bill = units * 1.5; }
else if (units <=200) {
    bill = (100 * 1.5) + (units - 100) * 2; }
else if (units <=300) {
    bill = (100*1.5) + (100*2) + (units-200) * 3; }
else {
    bill = (100*1.5) + (100*2) + (100*3) + (units-300) * 5; }
printf ("Total electricity bill = RS.%.2f\n", bill);
return 0;
}
```

5. Write a C program to input a number n and calculate the sum of first n natural numbers using the formula:

Sum = n x (n+1)/2

```
#include <stdio.h>
int main () {
 int n;
 int sum;
printf("Enter the number: ");
scanf ("%d", &n);
sum = n* (n+1)/2;
printf("Sum of first %d natural numbers is: %d\n", n,sum);
return 0;
}
```

6. Write a C program to input a number and check whether it is divisible by 5 and 11 or not.

```
#include <stdio.h>
int main () {
 int num;
 printf ("Enter a number: ");
 scanf ("%d", &num);
if (num % 5 ==0 && num % 11 ==0) {
  printf ("%d is divisible by both 5 and 11.\n", num); }
else {
  printf ("%d is not divisible by both 5 and 11.\n", num); }
return 0;
 }
```