```c
#include <stdio.h>

int main()
{
int num;
printf("enter an integer:");
scanf("%d",&num);
if(num>0){
  printf("%d is positive\n",num);
}else if (num<o){
  printf("%d is negative\n",num);
}else{
  printf("%d is zero\n");
}
return 0;
}
```

2. To check given number is leap year or not

```c
#include <stdio.h>

int main()
{
  int year;
  printf("enter the year");
  scanf("%d",&year);
  if(year%4==0)
  {
    if (year%100==0)
    {
      if(year%400==0)
        printf("\n %d is a leap year",year);
      else
        printf("\n %d is not a leap year",year);
    }
    else
      printf("\n %d is a leap year",year);
  }
  else
    printf("\n %d is not the leap year",year);
  return 0;
}
```

3. To check the given is palindrome or not

```c
#include <stdio.h>
int main()
{
  int n, revnumber = 0, remaindernum,number;
  printf("enter an integer:");
  scanf("%d",&n);
  number=n;
  while(n!=0)
  {
    remaindernum=n%10;
    revnumber=revnumber*10+remaindernum;
    n/=10;
  }
  if(number==revnumber)
    printf("%d is a palindrome",number);
  else
    printf("%d is not a palindrome",number);
  return 0;
}
```