

Leap Year:

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

Largest of 3 numbers:

```
#include<stdio.h>
void main(){
int a,b,c;
printf("Enter three numbers:");
scanf("%d%d%d",&a,&b,&c);
if(a>b && a>c)
    printf("largest=%d", a);
else if (b>a && b>c)
    printf("largest=%d", b);
else
    printf("largest=%d", c);
}
```

Roots of Quadratic Equation

```
#include<stdio.h>
#include<math.h>
void main(){
float a,b,c,d,r1,r2,rp,ip;
printf("Enter value of a,b,c:");
scanf("%f%f%f",&a,&b,&c);
d = sqrt(b*b - 4*a*c);
if(d>=0)
{
    r1 = (-b+sqrt(d))/2*a;
    r2 = (-b-sqrt(d))/2*a;
    printf("Roots are:%0.2f and %0.2f",r1,r2);
}
else
{
    d = -d;
    rp = -b/2*a;
    ip = d/2*a;
    printf("Roots are:%0.2f+i%0.2f and %0.2f-i%0.2f",rp,ip,rp,ip);
}
}
```

Basic Calculator:

```
#include<stdio.h>
void main(){
int a,b,choice;
float c;
char ans='n';
do
{
    printf("Enter two numbers:");
    scanf("%d%d",&a,&b);
    printf("\n1.ADDITION\n2.SUBTRACTION\n3.MULTIPLICATION\n4.DIVISION");
    printf("\nEnter your choice : ");
    scanf("%d",&choice);
    switch(choice)
```