

1. Greatest of two Numbers

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

```
int main()
```

```
{
```

```
    int a, b;
```

```
    printf("Enter two numbers: ");
```

```
    scanf("%d %d", &a, &b);
```

```
    if (a > b)
```

```
{
```

```
        printf("%d is greater\n", a);
```

```
}
```

```
    else if (b > a)
```

```
{
```

```
        printf("%d is greater\n", b);
```

```
}
```

```
    else
```

```
{
```

```
        printf("Both numbers are equal\n");
```

```
}
```

```
    return 0;
```

```
}
```

2. Leap Year or Not

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

```
int main()
```

```
{
```

```
    int year;
```

```
    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");
```

}

```
return 0;
```

}

3. Prime Number Within a given range

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

```
int main()
```

{

```
int start, end, i, j, count;
```

```
printf("Enter start value : ");
```

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

```
printf("Enter end value : ");
```

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

```
printf("Prime numbers between %d and %d are :\n",  
      start, end);
```

```
for (i = start; i <= end; i++) {
```

```
if (i < 2)
```

```
continue;
```

```
count = 0;
```

```
for (j = 1; j <= i; j++) {
```

```
if (i % j == 0) {
```

```
count++;
```

}

```
if (count == 2) {
```

```
printf("%d", i);
```

```
    }  
}  
return 0;  
}
```

4. Sum of digits of a number

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

```
int main ()
```

```
{
```

```
    int num, sum=0, digit;
```

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

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

```
    while (num > 0) {
```

```
        digit = num % 10;
```

```
        sum = sum + digit;
```

```
        num = num / 10;
```

```
}
```

```
    printf ("Sum of digits = %d\n", sum);
```

```
    return 0;
```

```
}
```