# **HEADER FILE**

# header.h

```
#include <stdio.h>
int binAddition(int a, int b)
    int c;
    while (b != 0)
       b = c;
int binSubtraction(int a, int b)
    int carry;
    b = binAddition(\sim b, 1);
    while (b != 0)
       carry = (a \& b) << 1;
       b = carry;
void division_unsigned_binary_numbers_Y20CS100(int a, int b)
    int count = 0;
    int rem;
```

```
while (a >= b)
{
    a = binSubtraction(a, b);
    count++;
}
rem = a;
printf("The answer is %d with a remainder of %d ", count, rem);
}
```

### MAIN FILE

### Main.c

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

int main()
{
   int a, b;
   printf("Enter number a : ");
   scanf("%d", &a);

   printf("Enter number b : ");
   scanf("%d", &b);

   division_unsigned_binary_numbers_Y20CS100(a, b);
}
```

# **OUTPUT:**

```
Enter number a : 55
Enter number b : 24
The answer is 2 with a remainder of 7
```