main.c   Run   Output   Clear

```c
1  #include <stdio.h>
2  void main()
3 ▾ {
4      // declaration of variables
5      int num, binary_num, decimal_num = 0, base
           = 1, rem;
6      printf (" Enter a binary number with the
           combination of 0s and 1s \n");
7      scanf (" %d", &num); // accept the binary
           number (0s and 1s)
8
9      binary_num = num; // assign the binary
           number to the binary_num variable
10
11
12     while ( num > 0)
13 ▾   {
14         rem = num % 10; /* divide the binary
               number by 10 and store the
               remainder in rem variable. */
15         decimal_num = decimal_num + rem * base;
16
           num = num / 10; // divide the number
               with quotient
17         base = base * 2;
18     }
19
20     printf ( " The binary number is %d \t",
           binary_num); // print the binary number
21     printf (" \n The decimal number is %d \t",
           decimal_num); // print the decimal
22  }
```

/tmp/bBactWzvI4.o
Enter a binary number with the combination of 0s and
    1s
0011
The binary number is 11
 The decimal number is 3