

```
1 //Write a C Program to Convert Binary Number to Decimal and vice-versa.
2
3 #include <stdio.h>
4
5 int main() {
6
7     int user, decimal = 0, base = 1, remainder;
8
9     printf("Enter a binary number:- ");
10    scanf("%d", &user);
11
12    while (user > 0) {
13        remainder = user % 10;
14        decimal += remainder * base;
15        base *= 2;
16        user /= 10;
17    }
18
19    printf("Decimal number is %d",decimal);
20
21 }
22
```

Console

Run

Ask AI 3s on 18:22:40, 04/25 ✓

Enter a binary number:- 1
Decimal number is 1

Run

Ask AI 1s on 18:22:46, 04/25 ✓

Enter a binary number:- 11
Decimal number is 3

Run

Ask AI 1s on 18:22:50, 04/25 ✓

Enter a binary number:- 101
Decimal number is 5

Run

Ask AI 3s on 18:22:52, 04/25 ✓

Enter a binary number:- 1001
Decimal number is 9

Run

Ask AI 1s on 18:22:58, 04/25 ✓

Enter a binary number:- 11111
Decimal number is 31

```
main.c x +
main.c > ...
1 //Write a C Program to Convert Binary Number to Decimal and vice-versa.
2
3 #include <stdio.h>
4
5 int main() {
6
7     int decimal, binary = 0, base = 1, remainder;
8
9     printf("Enter a decimal number: ");
10    scanf("%d", &decimal);
11
12    while (decimal > 0) {
13        remainder = decimal % 2;
14        binary += remainder * base;
15        base *= 10;
16        decimal /= 2;
17    }
18
19    printf("Binary number is %d", binary);
20
21
22 }
```

Format

Console x +

Run Ask AI 4s on 18:25:24, 04/25 ✓

Enter a decimal number: 2
Binary number is 10

Run Ask AI 3s on 18:25:31, 04/25 ✓

Collapse Enter a decimal number: 11
Binary number is 1011

Run Ask AI 4s on 18:25:36, 04/25 ✓

Enter a decimal number: 129
Binary number is 10000001

Run Ask AI 3s on 18:25:43, 04/25 ✓

Enter a decimal number: 7
Binary number is 111

Run Ask AI 1s on 18:25:48, 04/25 ✓

Enter a decimal number: 8
Binary number is 1000