

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

```
void main()
```

```
{
```

```
    int num, binary_num, decimal_num = 0, base = 1, rem;
```

```
    printf (" Enter a binary number with the combination of 0s and 1s \n");
```

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

```
    binary_num = num;
```

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

```
    {
```

```
        rem = num % 10;
```

```
        decimal_num = decimal_num + rem * base;
```

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

```
        base = base * 2;
```

```
    }
```

```
    printf ( " The binary number is %d \t", binary_num);
```

```
    printf (" \n The decimal number is %d \t", decimal_num);
```

```
}
```