

Main.java

Run

Output

Clear

```
1 class Main {
2     public static void main(String[] args) {
3         long binary = 101001;
4         int octal = convertBinarytoOctal(binary);
5         System.out.println(binary + " in binary = " + octal + " in
        octal");
6     }
7
8     public static int convertBinarytoOctal(long binaryNumber) {
9         int octalNumber = 0, decimalNumber = 0, i = 0;
10
11         while (binaryNumber != 0) {
12             decimalNumber += (binaryNumber % 10) * Math.pow(2, i);
13             ++i;
14             binaryNumber /= 10;
15         }
16
17         i = 1;
18     }
19 }
```

```
java -cp /tmp/0EEU9KC47v Main
101001 in binary = 51 in octal
```



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Main.java

```
10
11 while (binaryNumber != 0) {
12     decimalNumber += (binaryNumber % 10) * Math.pow(2, i);
13     ++i;
14     binaryNumber /= 10;
15 }
16
17 i = 1;
18
19 while (decimalNumber != 0) {
20     octalNumber += (decimalNumber % 8) * i;
21     decimalNumber /= 8;
22     i *= 10;
23 }
24
25 return octalNumber;
26 }
27 }
```

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java -cp /tmp/0EEU9KC47v Main
101001 in binary = 51 in octal

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