BINARY NUMBER TO DECIMAL NUMBER

PROGRAM:

|  |
| --- |
| #include <stdio.h> |
|  | int 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); |
|  | } |

OUTPUT:

Enter a binary number with the combination of 0s and 1s

101

The binary number is 101

The decimal number is 5

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Process exited after 2.314 seconds with return value 28

Press any key to continue . . .