23. Write a program to convert Binary number to Decimal number using any high level language.

PROGRAM:

#include <stdio.h>

#include <math.h>

// function prototype

int convert(long long);

int main() {

long long n;

printf("Enter a binary number: ");

scanf("%lld", &n);

printf("%lld in binary = %d in decimal", n, convert(n));

return 0;

}

// function definition

int convert(long long n) {

int dec = 0, i = 0, rem;

while (n!=0) {

rem = n % 10;

n /= 10;

dec += rem \* pow(2, i);

++i;

}

return dec;

}

OUTPUT:

Enter a binary number: 1101

1101 in binary = 13 in decimal