29 July

**C Program to convert Octal to Decimal.**

#include <math.h>

#include <stdio.h>

int convert(long long bin);

int main() {

long long bin;

printf("Enter a binary number: ");

scanf("%lld", &bin);

printf("%lld in binary = %d in octal", bin, convert(bin));

return 0;

}

int convert(long long bin) {

int oct = 0, dec = 0, i = 0;

// converting binary to decimal

while (bin != 0) {

dec += (bin % 10) \* pow(2, i);

++i;

bin /= 10;

}

i = 1;

// converting to decimal to octal

while (dec != 0) {

oct += (dec % 8) \* i;

dec /= 8;

i \*= 10;

}

return oct;

}