/\*\*

Demonstration of integer types

\*/

#include <cstdio>

using namespace std;

int main(int argc, char \*\* argv)

{

//This will show the size of integer type

printf("---Demonstration of integer types ---\n");

printf("size of char is -> %ld bits\n", sizeof(char) \* 8);

printf("size of short int is -> %ld bits\n", sizeof(short int) \* 8);

printf("size of int is -> %ld bits\n", sizeof(int) \* 8);

printf("size of long int is -> %ld bits\n", sizeof(long int) \* 8);

printf("size of long long is -> %ld bits\n", sizeof(long long) \* 8);

//integer types in octal and hexadecimal

printf("\n=== integer types in octal and hexadecimal ===\n");

long int octX = 0234; //octal no

long int hexY = 0x453ff; //hexadecimal no

long int binZ = 0b1000; //binary no

printf("octX %o is %ld in decimal\n", octX, octX);

printf("hexY %x is %ld in decimal\n", hexY, hexY);

printf("binZ %lb is %ld in decimal\n", binZ, binZ);

return 0;

}