**C program for hexadecimal to binary conversion**

#include<stdio.h>

#define MAX 1000

int main(){

    char binaryNumber[MAX],hexaDecimal[MAX];

    long int i=0;

    printf("Enter any hexadecimal number: ");

    scanf("%s",hexaDecimal);

    printf("\nEquivalent binary value: ");

    while(hexaDecimal[i]){

         switch(hexaDecimal[i]){

             case '0': printf("0000"); break;

             case '1': printf("0001"); break;

             case '2': printf("0010"); break;

             case '3': printf("0011"); break;

             case '4': printf("0100"); break;

             case '5': printf("0101"); break;

             case '6': printf("0110"); break;

             case '7': printf("0111"); break;

             case '8': printf("1000"); break;

             case '9': printf("1001"); break;

             case 'A': printf("1010"); break;

             case 'B': printf("1011"); break;

             case 'C': printf("1100"); break;

             case 'D': printf("1101"); break;

             case 'E': printf("1110"); break;

             case 'F': printf("1111"); break;

             case 'a': printf("1010"); break;

             case 'b': printf("1011"); break;

             case 'c': printf("1100"); break;

             case 'd': printf("1101"); break;

             case 'e': printf("1110"); break;

             case 'f': printf("1111"); break;

             default:  printf("\nInvalid hexadecimal digit %c ",hexaDecimal[i]); return 0;

         }

         i++;

    }

    return 0;

}

**Sample output:**

Enter any hexadecimal number: 2AD5

Equivalent binary value: 0010101011010101