Program :-

```c
// write a program to convert unit


#include <stdio.h>
#include <stdlib.h>
#include <string.h>

double value, converted_value;

void km_to_m(void)
{
    converted_value = value*1000;
    printf("\nThe conversion of %lf to m is %lf. \
n",value, converted_value);
}

void m_to_km(void)
{
    converted_value = value/1000;
    printf("\nThe conversion of %lf to km is %lf.\
n",value, converted_value);
}

void m_to_cm(void)
{
    converted_value = value*100;
    printf("\nThe conversion of %lf to cm is %lf.\
n",value, converted_value);
}

void feet_to_inches(void)
{
    converted_value = value*12;
    printf("\nThe conversion of %lf to inches is %lf.\
n",value, converted_value);
}

void inches_to_feet(void)
{
    converted_value = value/12;
    printf("\nThe conversion of %lf to feet is %lf.\
n",value, converted_value);
}
```

```c
int main(void)
{
    char convert_to[30];
    int i = 1;

    while(i>0)
    {
        for (i=0; i<=60; i++)
        {
            printf("_");
        }
        printf("\n \n enter the number which you want to
convert :\t");
        scanf("%lf", &value);

        // Need the function strcmp, or strncmp from
string.h.

        // Since strings are just arrays, you need to
compare each character, so this function will do that for
you
        printf("\nTo what unit do you want  to convert
the number to ? \n1] km to m,\n2] m to km,\n3] M to cm, \
n4] feet to inches,\n5] inches to feet,\n6] All of the
above,\n7] Exit \nChoose the unit you want to convert to
by entering the number of your choice.");
        printf("\nEnter your choice :\t");
        scanf("%s", &convert_to);

        if (strcmp(convert_to, "1") == 0)
        {
            km_to_m();
        }

        else if (strcmp(convert_to, "2") == 0)
        {
            m_to_km();
        }

        else if (strcmp(convert_to, "3") == 0)
        {
            m_to_cm();
        }

        else if (strcmp(convert_to, "4") == 0)
        {
            feet_to_inches();
        }
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        else if (strcmp(convert_to, "5") == 0)
        {
            inches_to_feet();
        }

        else if (strcmp(convert_to, "6") == 0)
        {
            km_to_m();
            m_to_km();
            m_to_cm();
            feet_to_inches();
            inches_to_feet();
        }

        else if (strcmp(convert_to, "7") == 0)
        {
            printf("\nBye!!!\n");
            return 0;
        }

        else
        {
            printf("did not convert \n");
        }

    }
}
```

Output :-

_____

 enter the number which you want to convert :   4578

To what unit do you want to convert the number to ?
1] km to m,
2] m to km,
3] M to cm,
4] feet to inches,
5] inches to feet,
6] All of the above,

7] Exit
Choose the unit you want to convert to by entering the
number of your choice.
Enter your choice :   1

The conversion of 4578.000000 to m is 4578000.000000.
_____

  enter the number which you want to convert :   4844848

To what unit do you want to convert the number to ?
1] km to m,
2] m to km,
3] M to cm,
4] feet to inches,
5] inches to feet,
6] All of the above,
7] Exit
Choose the unit you want to convert to by entering the
number of your choice.
Enter your choice :   2

The conversion of 4844848.000000 to km is 4844.848000.
_____

  enter the number which you want to convert :   444555

To what unit do you want to convert the number to ?
1] km to m,
2] m to km,
3] M to cm,
4] feet to inches,
5] inches to feet,
6] All of the above,
7] Exit
Choose the unit you want to convert to by entering the
number of your choice.
Enter your choice :   3

The conversion of 444555.000000 to cm is 44455500.000000.
_____

  enter the number which you want to convert :   4484848

To what unit do you want to convert the number to ?
1] km to m,
2] m to km,
3] M to cm,

4] feet to inches,
5] inches to feet,
6] All of the above,
7] Exit
Choose the unit you want to convert to by entering the
number of your choice.
Enter your choice :   4

The conversion of 4484848.000000 to inches is
53818176.000000.

───

 enter the number which you want to convert :   75458

To what unit do you want to convert the number to ?
1] km to m,
2] m to km,
3] M to cm,
4] feet to inches,
5] inches to feet,
6] All of the above,
7] Exit
Choose the unit you want to convert to by entering the
number of your choice.
Enter your choice :   5

The conversion of 75458.000000 to feet is 6288.166667.

───

 enter the number which you want to convert :   448484

To what unit do you want to convert the number to ?
1] km to m,
2] m to km,
3] M to cm,
4] feet to inches,
5] inches to feet,
6] All of the above,
7] Exit
Choose the unit you want to convert to by entering the
number of your choice.
Enter your choice :   6

The conversion of 448484.000000 to m is 448484000.000000.

The conversion of 448484.000000 to km is 448.484000.

The conversion of 448484.000000 to cm is 44848400.000000.

The conversion of 448484.000000 to inches is
5381808.000000.

The conversion of 448484.000000 to feet is 37373.666667.
_____

 enter the number which you want to convert :   445

To what unit do you want to convert the number to ?
1] km to m,
2] m to km,
3] M to cm,
4] feet to inches,
5] inches to feet,
6] All of the above,
7] Exit
Choose the unit you want to convert to by entering the
number of your choice.
Enter your choice :   7

Bye!!!