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Exercise 2: Solution + Shoutouts: C Tutorial In Hindi #24

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Course: C Language Tutorials For Beginners ⊕
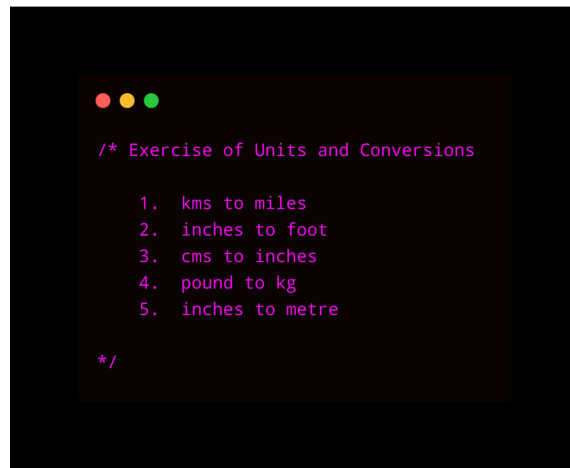
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Exercise-2 (Solution)

So, Guys here is the solution of exercise 2 which I gave you some days ago in our C course.

Question: You have to make a program which can convert the following units into other system units.

```
••• 

/* Exercise of Units and Conversions

     1.  kms to miles
     2.  inches to foot
     3.  cms to inches
     4.  pound to kg
     5.  inches to metre

*/
```

Hint : In this program you can use switch case statements to choose between any of the conversion and after that you can use simple logic to make program which can convert units from one system to another.

Solution: So, here is the solution of that exercise ..

```c
#include <stdio.h>

int main()
{

    char input;
    float kmsToMiles = 0.621371;
    float inchesToFoot = 0.0833333;
    float cmsToInches = 0.393701;
```

```c
    float poundToKgs = 0.453592;
    float inchesToMeters = 0.0254;
    float first, second;

    while (1)
    {
        printf("Enter the input character. q to quit\n        1. kms to miles\n

        scanf(" %c", &input);
 //      printf("The character is '%c'", input);
        switch (input)
        {
        case 'q':
         printf("Quitting the program...");
         goto end;
         break;

         case '1':
         printf("Enter quantity in terms of first unit\n");
         scanf("%f", &first);
         second = first * kmsToMiles;
         printf("%.2f Kms is equal to %.2f Miles\n\n\n", first, second);
         break;

         case '2':
         printf("Enter quantity in terms of first unit\n");
         scanf("%f", &first);
         second = first * inchesToFoot;
         printf("%f Inches is equal to %f Foot\n", first, second);
         break;

         case '3':
         printf("Enter quantity in terms of first unit\n");
         scanf("%f", &first);
         second = first * cmsToInches;
         printf("%f Cms is equal to %f Inches\n", first, second);
         break;

         case '4':
         printf("Enter quantity in terms of first unit\n");
```
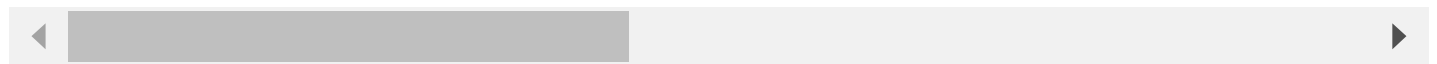
```c
        scanf("%f", &first);
        second = first * poundToKgs;
        printf("%f Pounds is equal to Kgs %f \n", first, second);
        break;

        case '5':
        printf("Enter quantity in terms of first unit\n");
        scanf("%f", &first);
        second = first * inchesToMeters;
        printf("%f inches is equal to %f meters \n", first, second);
        break;

        default:
        printf("In default now");
            break;
        }
    }
    end:

    return 0;
}
```

So, Hope You have understood this exercise and for better explanation Must check above video.

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