Week 2 – 1:

--Coding-C-Language Features-Optional.

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Q1) Many people think about their height in feet and inches, even in some countries that primarily use the metric system. Write a program that reads a number of feet from the user, followed by a number of inches. Once these values are read, your program should compute and display the equivalent number of centimeters.

Hint: One foot is 12 inches. One inch is 2.54 centimeters.

Input Format

First line, read the number of feet.

Second line, read the number of inches.

Output Format

In one line print the height in centimeters.

Note: All of the values should be displayed using two decimal places.

Sample Input 1

5

6

Sample Output 1

167.64

Code:

```
#include <stdio.h>
int main(){
    float a,b;
    scanf("%f %f",&a,&b);
    float s = a*12*2.54;
    float u = b*2.54;
    float us = s+u;
    printf("%.2f",us);
    return 0;
}
```

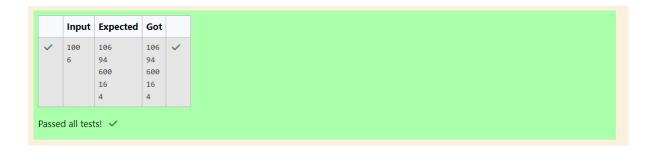
OUTPUT:

Q2) Create a program that reads two integers, a and b, from the user. Your program should
compute and display:
• The sum of a and b
• The difference when b is subtracted from a
• The product of a and b
• The quotient when a is divided by b
• The remainder when a is divided by b
Input Format
First line, read the first number.
Second line, read the second number.
Output Format
First line, print the sum of a and b
Second line, print the difference when b is subtracted from a
Third line, print the product of a and b
Fourth line, print the quotient when a is divided by b
Fifth line, print the remainder when a is divided by b
Sample Input 1
100
6
Sample Output1
106
94
600
16
4

Code:

```
#include <stdio.h>
int main(){
    int a,b;
    scanf("%d %d",&a ,&b);
    printf("%d \n%d \n%d \n%d \n%d \n%d \n%d \n,a+b,a-b,a*b,a/b,a*b);
    return 0;
}
```

OUTPUT:



Q3) A bakery sells loaves of bread for \$3.49 each. Day old bread is discounted by 60 percent. Write a program that begins by reading the number of loaves of day-old bread being purchased from the user. Then your program should display the regular price for the bread, the discount because it is a day old, and the total price. Each of these amounts should be displayed on its own line with an appropriate label. All of the values should be

Input Format

Read the number of day old loaves.

displayed using two decimal places.

Output Format

First line, print Regular price: price Second line, print Discount: discount Third line, print

Total: total

Note: All of the values should be displayed using two decimal places.

Sample Input 1

10

Sample Output 1

Regular price: 34.90 Discount: 20.94 Total: 13.96

Code:

```
#include <stdio.h>
int main(){
    int a;
    scanf("%d",%a);
    float ab = a*3.49;
    float ac = ab*0.6;
    float ad = ab-ac;
    printf("Regular price: %.2f\nDiscount: %.2f\nTotal: %.2f",ab,ac,ad);
    return 0;
}
```

OUTPUT:

	Input	Expected	Got	
~	10	Regular price: 34.90 Discount: 20.94 Total: 13.96	Regular price: 34.90 Discount: 20.94 Total: 13.96	~
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