1. Write a C program to print the following characters in a reverse way. Test Characters: 'X', 'M', 'L'

Expected Output:

The reverse of XML is LMX

2. Write a C program to compute the perimeter and area of a rectangle with a height of 7 inches. and width of 5 inches.

Expected Output:

Perimeter of the rectangle = 24 inches Area of the rectangle = 35 square inches

3. Write a C program to compute the perimeter and area of a circle with a given radius of 6 inch.

Expected Output:

Perimeter of the Circle = 37.680000 inches Note:-Take pi=3.14

Area of the Circle = 113.040001 square inches

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4. Write a C program to display multiple variables.
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Sample Variables : a+c, x+c, dx+x, ((int) dx) +ax, a+x, s+b, ax+b, s+c, ax+c, ax+ux Declaration : int a=125, b=12345; long ax=1234567890; short s=4043; float x=2.13459; double dx=1.1415927; char c='W'; unsigned long dx=2541567890;
```

```
Sample output:
```

```
a + c = 212

x + c = 89.134590

dx + x = 3.276183

((int) dx) + ax = 1234567891

a + x = 127.134590

s + b = 16388

ax + b = 1234580235

s + c = 4130

ax + c = 1234567977

ax + ux = 3776135780
```

5. Write a C program that accepts three integers and find the maximum of three.

Test Data :

Input the first integer: 25 Input the second integer: 35 Input the third integer: 15

Expected Output:

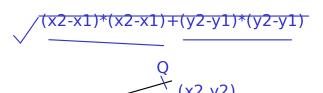
Maximum value of three integers: 35

6. Write a C program to calculate the distance between the two points.

Test Data: Input x1: 25 Input y1: 15 Input x2: 35

Input y2: 10 Expected Output:

Distance between the said points: 11.1803



 $(\dot{x}1,y1)$

Sample Output:

Input x1: 25 Input y1: 15 Input x2: 35 Input y2: 10

Distance between the said points: 11.1803

7. Write a C program to convert a given integer (in seconds) to hours, minutes and seconds.

Test Data:

Input seconds: 25300

Expected Output: H=sec/3600

There are: M=(sec-(h*3600))/60

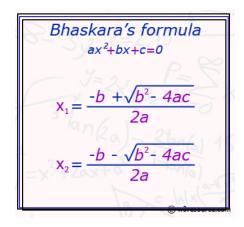
H:M:S - 7:1:40 S=sec-

8. Write a C program to print the roots of Bhaskara's formula from the given three floating numbers. Display a message if it is not possible to find the roots.

Test Data:

Input the first number(a): 25
Input the second number(b): 35
Input the third number(c): 12

Expected Output: Root1 = -0.60000 Root2 = -0.80000



Practice Questions

1. Write a C program to print your name, date of birth. and mobile number. Expected Output:

Name: Arun Singh DOB: July 14, 1975 Mobile: 99-999999999

2. Write a C program to convert specified days into years, weeks and days.

Note: Ignore leap year.

Test Data:

Number of days: 1329 Expected Output:

Years: 3 Weeks: 33 Days: 3

3. Write a C program that accepts two integers from the user and calculate the sum of the two integers.

Test Data:

Input the first integer: 25 Input the second integer: 38

Expected Output:

Sum of the above two integers = 63

4. Write a C program that accepts two item's weight (floating points' values) and number of purchase (floating points' values) and calculate the average value of the items.

Test Data:

Weight - Item1: 15 No. of item1: 5 Weight - Item2: 25 No. of item2: 4 Expected Output:

Average Value = 19.444444

5. Write a C program to read an amount (integer value) and break the amount into smallest possible number of bank notes.

Test Data:

Input the amount: 375

Expected Output:

There are:

3 Note(s) of 100.00

1 Note(s) of 50.00

1 Note(s) of 20.00

0 Note(s) of 10.00

1 Note(s) of 5.00

0 Note(s) of 2.00

0 Note(s) of 1.00

6. Write a C program to convert a given integer (in days) to years, months and days, assumes that all months have 30 days and all years have 365 days.

Test Data:

Input no. of days: 2535

Expected Output:

6 Year(s) 11 Month(s) 15 Day(s)