

	<pre> int c = 3; if (((int)a % c == 0) { printf("Result: %.2f\n", a / c); } else { printf("Result: %.2f\n", (float)((int)b % c)); } return 0; } </pre>	<pre> for (int j = 1; j <= 3; j++) { if (i == j) { continue; } if (i + j == 4) { break; } printf("i = %d, j = %d\n", i, j); } return 0; } </pre>										
4.	Analyze the problem scenarios given below to write a full program for each of the following:			CO4								
a)	<p>Recently, Bangladesh has experienced a devastating flood that has affected many lives. As a prayer for the safety of all Bangladeshis, write a simple C program that outputs the following message: May our people be safe from the flood!</p> <table border="1"> <tr> <th>Sample Input</th><th>Sample Output</th></tr> <tr> <td>NO INPUT</td><td>May our people be safe from the flood!</td></tr> </table>	Sample Input	Sample Output	NO INPUT	May our people be safe from the flood!	[3]	✓					
Sample Input	Sample Output											
NO INPUT	May our people be safe from the flood!											
b)	<p>The recent flood has affected many lives. A team of relief workers is collecting foodgrains from different regions to help those in need. They have collected (A) kg of foodgrains from Dhaka, (B) kg from Chittagong, and (C) kg from Rajshahi. Unfortunately, (D)% of the foodgrains are lost during transportation. Write a C program to calculate the amount of foodgrains that will actually be delivered.</p> <p>Input: Four floating point numbers A, B, C & D as described above. Output: The program should output the total amount of foodgrains delivered, formatted to <u>two decimal</u> places, in the following format: A total of X.XX kg of foodgrains delivered</p> <table border="1"> <tr> <th>Sample Input</th><th>Sample Output</th></tr> <tr> <td>100.0 150.0 200.0 10.0</td><td>A total of 405.00 kg of foodgrains delivered</td></tr> </table> <table border="1"> <tr> <th>Sample Input</th><th>Sample Output</th></tr> <tr> <td>50.5 75.75 100.25 5.0</td><td>A total of 215.18 kg of foodgrains delivered</td></tr> </table>	Sample Input	Sample Output	100.0 150.0 200.0 10.0	A total of 405.00 kg of foodgrains delivered	Sample Input	Sample Output	50.5 75.75 100.25 5.0	A total of 215.18 kg of foodgrains delivered	[4]		
Sample Input	Sample Output											
100.0 150.0 200.0 10.0	A total of 405.00 kg of foodgrains delivered											
Sample Input	Sample Output											
50.5 75.75 100.25 5.0	A total of 215.18 kg of foodgrains delivered											
c)	<p>A team of rescue workers is tasked with delivering relief packages to various flood affected areas. Each package contains a certain number of essential items. The team will visit multiple locations, and the number of packages delivered at each location will be given as input. Write a C program to calculate the total number of packages delivered.</p> <p>Input: The program will take the following inputs:</p> <ul style="list-style-type: none"> ○ An integer <i>n</i> representing the number of locations. ○ <i>n</i> integers representing the number of packages delivered at each location. 	[4]										

Output: The program should output the total number of packages delivered in the following format:

A total of X packages delivered

Sample Input	Sample Output
3 10 20 30	A total of 60 packages delivered

Sample Input	Sample Output
4 5 15 25 10	A total of 55 packages delivered

Q) A team of rescue workers is tasked with distributing relief packages to various flood affected areas. Each area will receive a certain number of packages. The team will visit multiple locations, and the number of packages delivered to each location will be stored in an array. Write a C program to calculate the total number of packages delivered and print the number of packages delivered to each location that received more than a specified threshold.

[4]

Input: The program will take the following inputs:

- o An integer n representing the number of locations.
- o An array of n integers representing the number of packages delivered to each location.
- o An integer t representing the threshold number of packages.

Output: The program should output the total number of packages delivered and the number of packages delivered to each location that received more than the threshold, in the following format:

A total of X packages delivered

Locations with more than Y packages:

Location i: Z packages

Sample Input	Sample Output
3 10 20 30 15	A total of 60 packages delivered Locations with more than 15 packages: Location 2: 20 packages Location 3: 30 packages

Sample Input	Sample Output
4 5 15 25 10 10	A total of 55 packages delivered Locations with more than 10 packages: Location 2: 15 packages Location 3: 25 packages