#include<iostream>

using namespace std;

is common in all

**question 1**

int main() {

int integer\_array[10];

cout << "Enter 10 integers:" << endl;

for (int a = 0; a < 10; ++a) {

cout << "Enter an integer: ";

cin >> integer\_array[a];

}

cout << "The array elements are: ";

for (int a = 0; a < 10; ++a) {

cout << integer\_array[a] << " ";

}

cout << endl;

return 0;

}

**Question 2**

int main() {

const int length = 5;

int arr[length];

cout << "Enter 5 integers:" << endl;

for (int m = 0; m < length; ++m) {

cout << "Enter an integer: ";

cin >> arr[m];

}

int sum = 0;

int product = 1;

for (int m = 0; m < length; ++m) {

sum += arr[m];

product \*= arr[m];

}

cout << "the Sum of array elements: " << sum << endl;

cout << "the Product of array elements: " << product << endl;

return 0;

}

**Question 3**

int main() {

const int n = 5;

char diamond[n][2 \* n - 1];

for (int i = 0; i < n; ++i)

for (int k = 0; k < 2 \* n - 1; ++k)

diamond[i][k] = ' ';

for (int i = 0; i < n; ++i)

diamond[i][n - 1 - i] = diamond[i][n - 1 + i] = '\*';

for (int i = n - 2; i >= 0; --i)

diamond[n - 1 + i][n - 1 - i] = diamond[n - 1 + i][n - 1 + i] = '\*';

for (int i = 0; i < n; ++i) {

for (int k = 0; k < 2 \* n - 1; ++k)

cout << diamond[i][k];

cout << endl;

}

return 0;

}