ABDUL MOIZ AKRAM

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ME-15-C

QUESTION NO 1

```cpp
#include <iostream>

using namespace std;

int main() {

  int numbers[10];

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

    cout << "Enter a number"<<endl;

    cin >> numbers[i];

  }


  cout << "You entered: "<<endl;

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

    cout << numbers[i] << " "<<endl;

  }


  return 0;

}
```

QUESTION 2

```cpp
#include <iostream>

using namespace std;

int main() {

    int n;

    cout << "Enter the number of rows: ";

    cin >> n;

    int arr[n * n];

    int a = 0;

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

        for (int j = 0; j < n - i - 1; j++) {

            arr[a++] = 0;

        }


        for (int j = 0; j < 2 * i + 1; j++) {

            arr[a++] = 1;

        }


        cout << endl;

    }



    for (int i = n - 1; i >= 0; i--) {

        for (int j = 0; j < n - i - 1; j++)

{

            arr[a++] = 0;

        }
```

```cpp
        for (int j = 0; j < 2 * i + 1; j++)

    {

            arr[a++] = 1;

        }



            cout << endl;

    }




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

    {

        if (arr[i] == 0) {

            cout << " "<<endl;

        } else {

            cout << "*"<<endl;

        }

    }



        return 0;

}
```

QUESTION 3

```cpp
#include <iostream>

using namespace std;

int main() {

 int arr[5];
```

```cpp
    int sum = 0;

    int product = 1;


    for (int i = 0; i < 5; i++)

    {

        cout << "Enter the element " << i + 1 << ": "<<endl;

        cin >> arr[i];

    }


    for (int i = 0; i < 5; i++)

    {

        sum += arr[i];

        product *= arr[i];

    }


    cout << "sum =: " << sum << endl;

    cout << "product = : " << product << endl;


    return 0;

}
```