Question1:

#include <iostream>

using namespace std;

int main()

{

    int i = 5;

    int diff = 3;

    int sum = 0;

    for (int j = 1; j < 6; j++)

    {

        cout << i << ", ";

        sum += i;

        i += diff++;

    }

    cout << "\nSum of these numbers is: " << sum;

    return 0;

}

Output:



Question2:

#include <iostream>

using namespace std;

int main()

{

    int count = 0;

    int intVar = 1, temp = 1, product = 1;

    while (product <= 2021)

    {

        cout << "Enter number for intVar: ";

        cin >> intVar;

        temp = product;

        product = intVar \* product;

        count++;

    }

    cout << "At count : " << count << endl;

    cout << "Last product : "

         << temp << endl;

    cout << "intVar = " << intVar << endl;

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

    return 0;

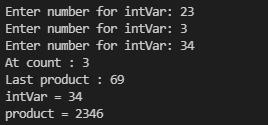
}

// if product = 3000, then loop will not iterate anytime

Answer:

If product = 3000, then loop will not iterate anytime.

Output



Question3:

#include <iostream>

using namespace std;

int main()

{

    int count = 0;

    int intVar = 1, temp = 1, product = 1;

    do

    {

        cout << "Enter and integer intVar: ";

        cin >> intVar;

        temp = product;

        product = intVar \* product;

        count++;

    } while (product <= 2021);

    cout

        << "At count : " << count << endl;

    cout << "Last product : "

         << temp << endl;

    cout << "intVar = " << intVar << endl;

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

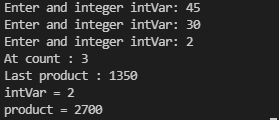
    return 0;

}

// if product = 3000 then loop will iterate one time

Answer: if product = 3000 then loop will iterate one time.

Output:



Question4:

#include <iostream>

#include <fstream>

using namespace std;

int main()

{

    string custumerID;

    cout << "Enter customer ID : ";

    cin >> custumerID;

    string customerName;

    cout << "Enter customer name : ";

    cin >> customerName;

    float balance;

    cout << "Enter customer blanace : ";

    cin >> balance;

    ofstream MyFile("customer.txt");

    // Write to the file

    MyFile << custumerID << " - " << customerName << " - " << balance;

    MyFile.close();

    return 0;

}

Question4B:

#include <iostream>

#include <fstream>

#include <string>

using namespace std;

int main()

{

    string myText;

    // Read from the text file

    ifstream MyReadFile("customer.txt");

    // Use a while loop together with the getline() function to read the file line by line

    while (getline(MyReadFile, myText))

    {

        // Output the text from the file

        cout << myText;

    }

    // Close the file

    MyReadFile.close();

    return 0;

}

Question5:

#include <iostream>

using namespace std;

int main()

{

    int choice;

    cout << "1.Task1\n2.Task2\n3.Task3\n0. Exit\n";

    cout << "Type a number 1, 2, 3 to select task: ";

    cin >> choice;

    switch (choice)

    {

    case 1:

        cout << "You select task 1";

        break;

    case 2:

        cout << "You select task 2";

        break;

    case 3:

        cout << "You select task 3";

        break;

    case 0:

        cout << "You select EXIT";

        break;

    default:

        cout << "Invalid number";

        break;

    }

    return 0;

}