Work 1

По предмету

programming

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Ticket 8

1) Write a program that outputs your full name, including your surname and first name.

2) Write a short program that displays a message explaining what a compiler is and why it's necessary in C++.

3) **Summing Numbers with While Loop**
- Enter a number.
- Stops when the user enters a negative number.
- Prints the sum of all entered positive numbers.

Task 1:

Coding C++

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RUN   MENU

```cpp
1  #include<iostream>
2  using namespace std;
3
4  int main()
5  {
6
7      cout << "Tuychiyeva Shahrizoda " << endl;
8
9
10     return 0;
11 }
```

Compile Result

```
Tuychiyeva Shahrizoda

[Process completed - press Enter]
```

Task 2:

```cpp
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     cout << "What is a Compiler?\n";
6     cout << "----------------------\n";
7     cout << "A compiler is a program that translates source code written in
8     cout << "into machine code or binary code that the computer's processor
9     cout << "Why is it Necessary?\n";
0     cout << "----------------------\n";
1     cout << "Without a compiler, the code we write in C++ could not be unde
2     cout << "The compiler checks our code for errors, converts it into a lo
3     cout << "allowing our program to run on a computer.\n";
4
5     return 0;
6 }
7
```

Compile Result

```
What is a Compiler?
--------------------
A compiler is a program that translates s
ource code written in a high-level progra
mming language, like C++,
into machine code or binary code that the
 computer's processor can understand and
execute.

Why is it Necessary?
--------------------
Without a compiler, the code we write in
C++ could not be understood by the comput
er.
The compiler checks our code for errors,
converts it into a low-level language, an
d creates an executable file,
allowing our program to run on a computer
.

[Process completed - press Enter]
```

Task 3:

```cpp
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int number;
6      int sum = 0;
7
8      cout << "Enter numbers to add to the sum (enter a negative number to s
9
10     while (true) {
11         cout << "Enter a number: ";
12         cin >> number;
13
14         if (number < 0) {
15             break;
16         }
17
18         sum += number;
19             }
20
21     cout << "The total sum is: " << sum << endl;
22
23     return 0;
24 }
```

Compile Result

```
Enter numbers to add to the sum (enter a
negative number to stop):
Enter a number: 5
Enter a number: 3
Enter a number: -2
The total sum is: 8

[Process completed - press Enter]
```