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| Student Name: …….………………………………………………………………….... | Student Number: …………………………………………………….………….. |

1. Examine the following C++ code then choose the right answer. What is most likely to happen with this loop?

**int i = 1;**

**while(i < 100) {**

**if(i > 50 && i % 25 == 0) {**

**continue;**

**}**

**i++;**

**}**

* The code will run 100 times.
* An infinite loop will occur.
* i will get updated to 0.
* The continue statement will restart the loop.

1. Write a program in C++ to display n terms of natural number and their sum.

A screenshot of a cell phone

Description automatically generated

#include <iostream>

using namespace std;

int main()

{

int n,i,sum=0;

cout << "\n\n Display n terms of natural number and their sum:\n";

cout << "---------------------------------------\n";

cout << " Input a number of terms: ";

cin>> n;

cout << " The natural numbers upto "<<n<<"th terms are: \n";

for (i = 1; i <= n; i++)

{

cout << i << " ";

sum=sum+i;

}

cout << "\n The sum of the natural numbers is: "<<sum << endl;

}