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//made by orange monkey
// C201 Assignment No.1 Fall 2021

#include <iostream>
#include <string>

using namespace std;

void printnameid(string studentid, string studentname);
int calculatelastthreedigits(string studentid);

int main()
{
   string studentid="Bc200000002";
   string studentname="ORANGE MONKEY";


   printnameid(studentid,studentname);
   int TotalLastThreeDigits=calculatelastthreedigits(studentid);
   int counter=1;

   if ( TotalLastThreeDigits % 2 == 0)
// Divide by 2 and see if the reminder is zero? then it is even otherwise it is odd number
   {
      cout << "the sum is an even value:"<<endl;
  cout<<"+++++++++++++++++++++++++++++++++++++++++++++"<<    endl;
      while(counter <= TotalLastThreeDigits)
      {
         cout << " Iteration: " << counter <<   endl;
         cout << "My student id is:" << studentid <<    endl;
         counter++;
      }
   }
   else
   {
      cout << "the sum is an odd value:"<<    endl;
      while(counter <= TotalLastThreeDigits)
      {
         cout << " Iteration: " << counter <<     endl;
         cout << "My name is " << studentname <<    endl;
         counter++;
      }
   }
   return 0;
}

void printnameid(string studentid, string studentname){
   cout<<"My name is " << studentname <<      endl;
```

```
   cout<<"My student id is:" << studentid <<      endl;
}

int calculatelastthreedigits(string studentid) {

   int end=studentid.length();
// Ending point that is total length of string
   int start=end-3;
// Starting point
   string lastthreedigits=studentid.substr(start,end);
// Trim the last three digits;
   int total=0;

   //Calculate the sum of last three digits
   for ( int index=0; index < lastthreedigits.length(); index++) {
  total += lastthreedigits[index] - '0';
}
   return total;
// return the total to calling statement.
}
```