NATIONAL UNIVERSITY OF SCIENCE & TECNOLOGY

SCHOOL OF MECHANICAL AND MANUFACTURING ENGINEERING

SEMESTER # 01
CLASS: - ME 15 [SEC A]

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HOME TASK No. 04

Date of Submission   24 OCT 2023

SUBMITTED TO: MUHAMMAD AFFAN

QUESTION No.01

//_____

/*1.Write a program in C++ that prints the numbers from 1 to 150 except the multiples of 10.Make use of the continue statement.

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*/

```cpp
#include <iostream>

using namespace std;

int main() {

        cout<<"QUESTION No.01"<<endl;j

    for (int i = 1; i <= 150; i++) {

        if (i % 10 == 0) {

                continue; // Skip the multiples of 10

        }

        cout << i << " ";

    }


        return 0;


}
```
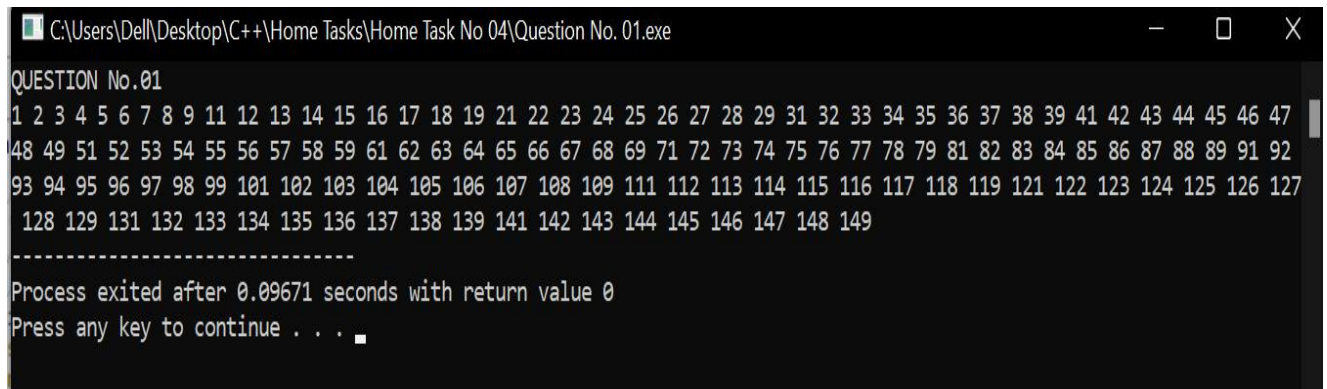
```
C:\Users\Dell\Desktop\C++\Home Tasks\Home Task No 04\Question No. 01.exe                    —    □    X

QUESTION No.01
1 2 3 4 5 6 7 8 9 11 12 13 14 15 16 17 18 19 21 22 23 24 25 26 27 28 29 31 32 33 34 35 36 37 38 39 41 42 43 44 45 46 47
48 49 51 52 53 54 55 56 57 58 59 61 62 63 64 65 66 67 68 69 71 72 73 74 75 76 77 78 79 81 82 83 84 85 86 87 88 89 91 92
93 94 95 96 97 98 99 101 102 103 104 105 106 107 108 109 111 112 113 114 115 116 117 118 119 121 122 123 124 125 126 127
 128 129 131 132 133 134 135 136 137 138 139 141 142 143 144 145 146 147 148 149
-------------------------------
Process exited after 0.09671 seconds with return value 0
Press any key to continue . . . _
```

QUESTION No.02

//_____

```cpp
/*2.Write a C++ program to find the sum of digits of a number. The sum of digits means adding all
the digits of any number, for example, we take any number like 358. Its sum of all digits is 3+5+8=16.

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*/
#include <iostream>
using namespace std; // Using the std namespace
int main() {
        cout<<"QUESTION No.02"<<endl;
    int number, sum = 0;


    cout << "Enter a number: ";
    cin >> number;


    if (number < 0) {
        number = -number;
    }


    while (number > 0) {
        int digit = number % 10;
        sum += digit;
        number /= 10;
    }


    cout << "The sum of the digits is: " << sum << endl;


    return 0;
}
```

```
C:\Users\Dell\Desktop\C++\Home Tasks\Home Task No 04\Question No. 02.exe

QUESTION No.02
Enter a number: 45
The sum of the digits is: 9


--------------------------------
Process exited after 1.876 seconds with return value 0
Press any key to continue . . .
```

QUESTION No.03

//_____

/*3.Write a program in C++ to check whether a number is prime or not.

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*/

```cpp
#include <iostream>

using namespace std;

int main() {

    cout<<"QUESTION No.03"<<endl;

    int num;

    bool isPrime = true;


    cout << "Enter a number: ";

    cin >> num;


    if (num <= 1) {

        isPrime = false;

    } else {

        for (int i = 2; i * i <= num; i++) {

            if (num % i == 0) {

                isPrime = false;

                break;

            }
```
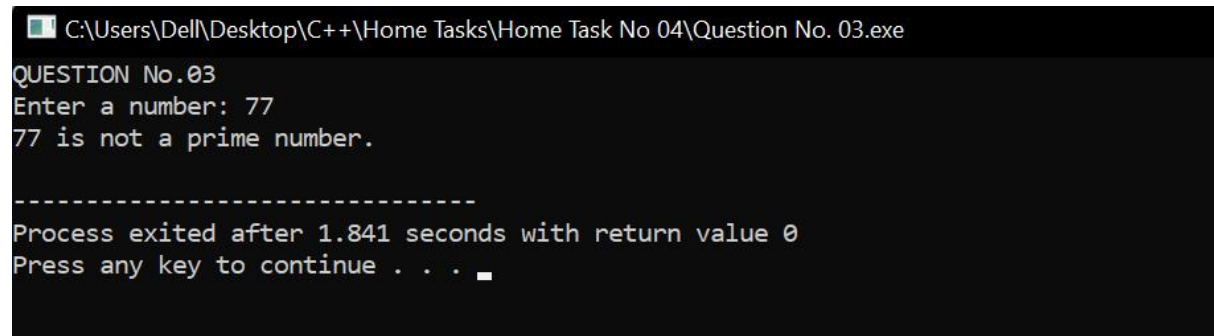
```cpp
        }

    }


    if (isPrime) {

        cout << num << " is a prime number." << endl;

    } else {

        cout << num << " is not a prime number." << endl;

    }


    return 0;

}
```



```
C:\Users\Dell\Desktop\C++\Home Tasks\Home Task No 04\Question No. 03.exe

QUESTION No.03
Enter a number: 77
77 is not a prime number.

--------------------------------
Process exited after 1.841 seconds with return value 0
Press any key to continue . . . _
```