LAB TASK (3)

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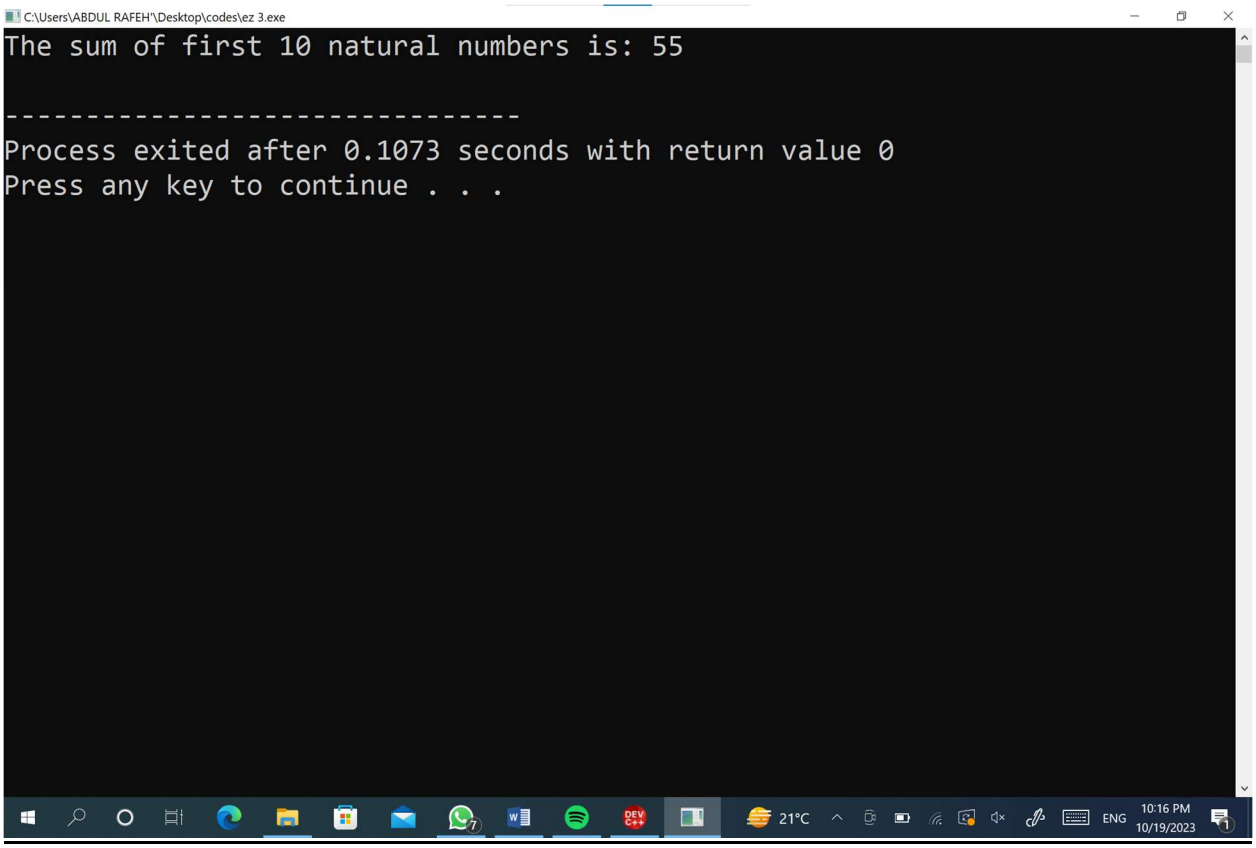
PROGRAM NO:1

```
#include <iostream>

using namespace std;

int main() {
  int sum = 0;
  for (int i = 1; i <= 10; i++) {
    sum += i;
  }

  cout << "The sum of first 10 natural numbers is: " << sum << endl;

  return 0;
}
```

OUTPUT:

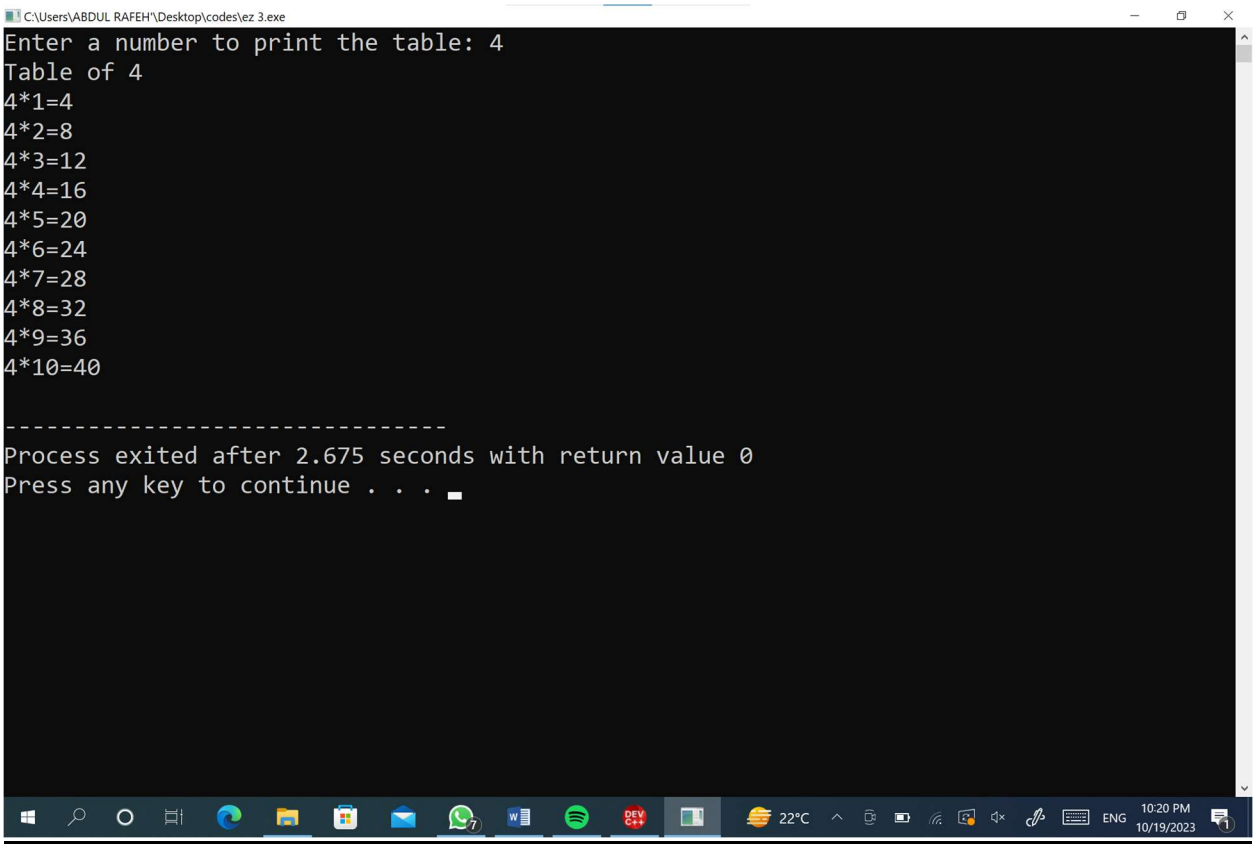


Program 2:

```
#include <iostream>


using namespace std;


int main() {
  int num;
  cout << "Enter a number to print the table: ";
  cin >> num;


  cout << "Table of " << num << endl;
```

```
  for (int i = 1; i <= 10; i++) {
    cout << num << "*" << i << "=" << num * i << endl;
  }

  return 0;
}
```

OUTPUT:

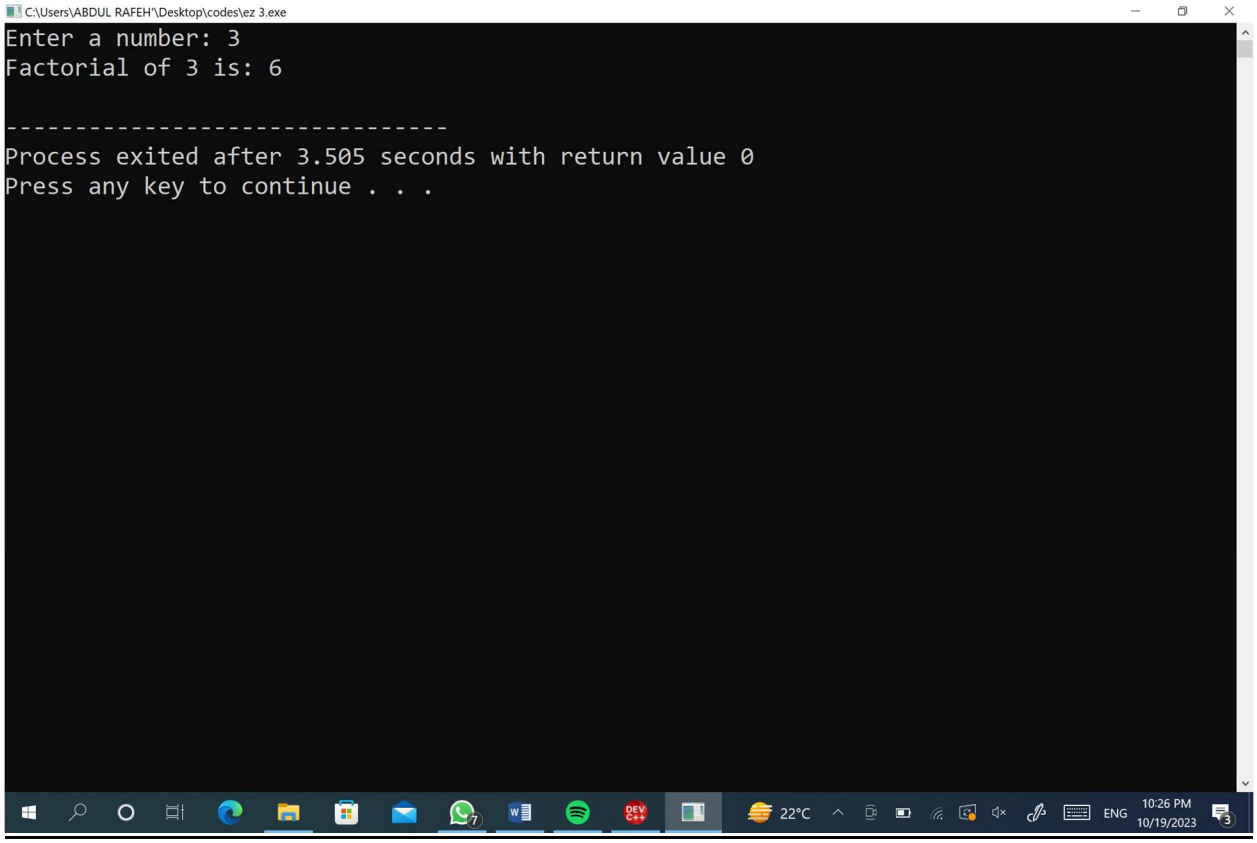


PROGRAM 3:

```
#include <iostream>

using namespace std;
```

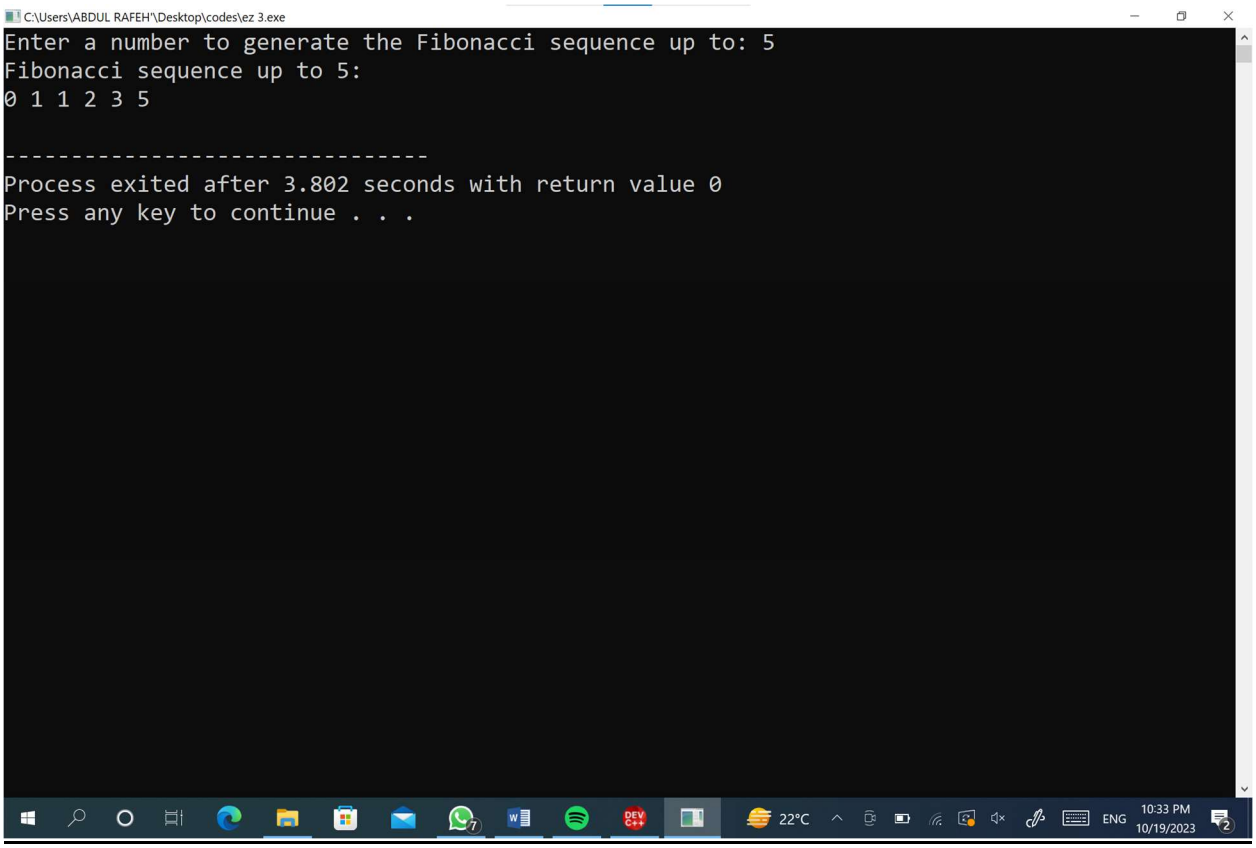
```
int main() {
  int number, factorial = 1;

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

  if (number < 0) {
    cout << "Factorial of negative numbers is not defined." << endl;

  }
  else for (int i = 1; i <= number; i++) {
    factorial *= i;
}
  cout << "Factorial of " << number << " is: " << factorial << endl;

  return 0;
}
```

OUTPUT:



PROGRAM 4:

```
#include <iostream>


using namespace std;


int main() {
  int n;
  cout << "Enter a number to generate the Fibonacci sequence up to: ";
  cin >> n;


  int a = 0, b = 1;
  cout << "Fibonacci sequence up to " << n << ": " << endl;
```

```
  cout << a << " " << b << " ";
  for (int i = 2; i <= n; i++) {
    int c = a + b;
    cout << c << " ";
    a = b;
    b = c;
  }
  cout << endl;

  return 0;
}
```

OUTPUT: