

FUNDAMENTALS OF PROGRAMING

LAB MANUAL-4

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CLASS: ME_15

SECTION: C

```
#include <iostream>
using namespace std;
int main() {
  int sum = 0;
  int number;
  cout << "Please enter 10 natural numbers:" << endl;</pre>
  for (int i = 0; i < 10; i++) {
   cin >> number;
    sum += number;
  }
  cout << "sum of ten number is equal to " << sum << endl;</pre>
  return 0;
}
  "C:\Users\HP\Desktop\lab task4\bin\Debug\lab task4.exe"
 Please enter 10 natural numbers:
 The sum of the 10 natural numbers is: 45
                                  execution time : 16.213 s
 Process returned 0 (0x0)
 Press any key to continue.
```

```
#include <iostream>
int main() {
  int input;
  std::cout << "Enter a number: ";
  std::cin >> input;
  for (int k=1; k \le 10; k++) {
    int result = input * k;
  std::cout << input<< " x " << k << " = " << result << std::endl;
  }
  return 0;
}
Enter a number: 7
7 \times 1 = 7
7 \times 2 = 14
7 \times 3 = 21
7 \times 4 = 28
7 \times 5 = 35
7 \times 6 = 42
7 \times 7 = 49
7 \times 8 = 56
7 \times 9 = 63
7 \times 10 = 70
```

```
#include <iostream>
int main() {
    int number;
    int factorial = 1;
    std::cout << "Enter a number: ";
    std::cin >> number;
    for (int f = 1; f <= number; f++) {
        factorial *= f;
    }
    std::cout << "The factorial of " << number << " is " << factorial << std::endl;
return 0;
}
Enter a number: 11
The factorial of 11 is 39916800</pre>
```

```
#include <iostream>
int main() {
  int limit;
  std::cout << "Enter any limit:";</pre>
  std::cin >> limit;
  int first = 3;
  int second =5;
  std::cout << "Fibonacci sequence upto given number " << limit << " ";
  std::cout << first << " " << second << " ";
  while (first + second <= limit) {
    int next = first + second;
    std::cout << next << " ";
    first = second;
    second = next;
  }
  std::cout << std::end;
  return 0;
Enter any limit:34
Fibonacci sequence upto given number 34 3 5 8 13 21 34
```