

Fundamentals of programming

**Assignment 4**



**Submitted By: HuzaIFA MUMTAZ (465679)**

**CLASS: mE-15-b**

**sUBMISSION DATE: 22 OCT, 2023**

**Task 1**

#include <iostream>

using namespace std;

int main()

{

int numbers = 0;

while (numbers <= 149) {

if (numbers % 10 == 0) {

numbers++;

continue;

}

else {

cout << numbers << "\n";

}

numbers++;

}

return 0;

}

**Task 2**

#include <iostream>

using namespace std;

int main() {

int number, originalNumber, digit, sum = 0;

cout << "Enter a number: ";

cin >> number;

originalNumber = number;

while (number > 0) {

digit = number % 10;

sum += digit;

number /= 10;

}

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

return 0;

}

**Task 3**

#include <iostream>

using namespace std;

int main() {

int n, divisor = 2;

cout << "Enter a number: ";

cin >> n;

while (divisor \* divisor <= n) {

if (n % divisor == 0) {

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

return 0;

}

divisor++;

}

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

return 0;

}