NATIONAL UNIVERSITY OF SCIENCE & TECNOLOGY

SCHOOL OF MECHANICAL AND MANUFACTURING ENGINEERING

[FUNDAMENTALS OF PROGRAMMING]

Home Task # 4

SEMESTER # 01

CLASS: - ME-15 [SEC A]

NAME: TALHA MATEEN
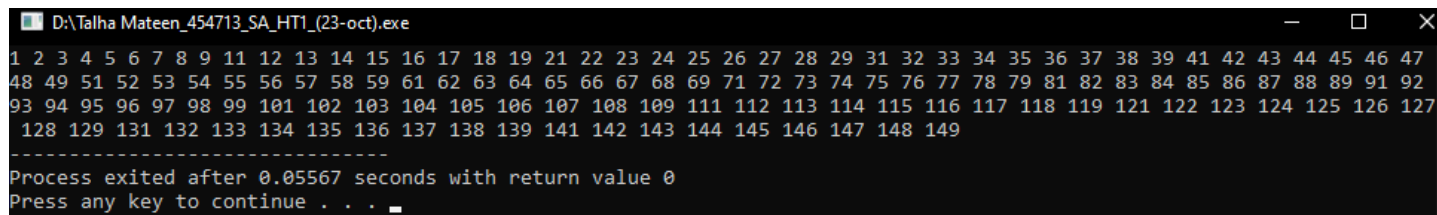
ROLL NO.: 454713

TASK # 1:

```cpp
#include <iostream>
using namespace std;
int main(){
//code is showing non-multiples of 10 from 1 to 150...
for (int i=1; i<=150; i++){

//number is not multiple of 10...
if (i % 10 == 0)

{continue;}
//output is____
cout<<i<< " " ;}
return 0;

}
```

TASK # 2:

```cpp
#include <iostream>
using namespace std;
int main(){

//code for sum of digits of a number.
int number;
int sum=0;

//imput number from user...
cout<<"Enter the number ."<<endl;
cin>>number;

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

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

//output result is ...
cout<<"The sum of the digits is "<<sum<<endl;

return 0;
}
```
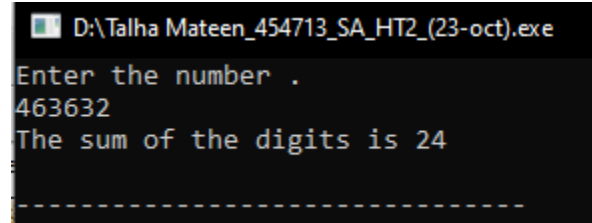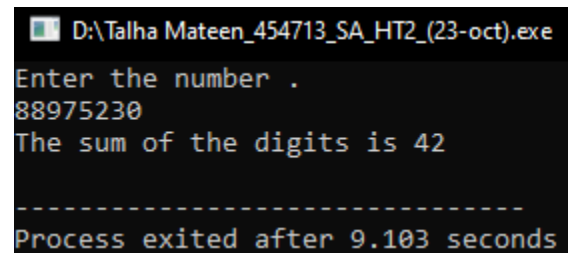


```
D:\Talha Mateen_454713_SA_HT2_(23-oct).exe
Enter the number .
463632
The sum of the digits is 24
```



```
D:\Talha Mateen_454713_SA_HT2_(23-oct).exe
Enter the number .
88975230
The sum of the digits is 42

Process exited after 9.103 seconds
```

TASK # 3:

```cpp
#include <iostream>
using namespace std;
int main(){
//program to check the entered number is prime or not...
int x;
//using bool here...
bool isprime=true;
//input the number from user..
cout<<"input the value of x:\n";
cin>>x;

if (x<= 1){

isprime = false;
}
else {
for (int i=2; i*i<= x; i++){

if(x % i==0){
isprime= false;
break; }}}

//for prime numbers...
if (isprime){
cout<< x <<" is prime number ."<<endl;}

else {
//condition for composite numbers...
cout<< x <<" is not a prime."<<endl;
}
return 0;}
```
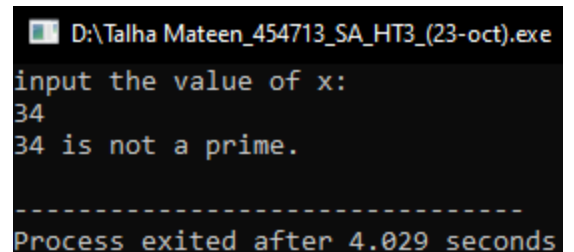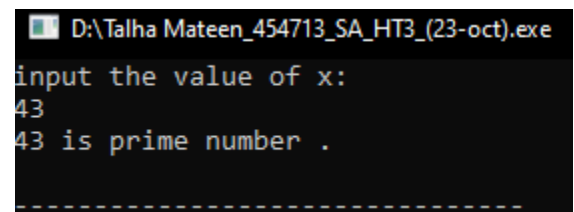


```
D:\Talha Mateen_454713_SA_HT3_(23-oct).exe
input the value of x:
34
34 is not a prime.

---------------------------------
Process exited after 4.029 seconds
```



```
D:\Talha Mateen_454713_SA_HT3_(23-oct).exe
input the value of x:
43
43 is prime number .

---------------------------------
```