

Lab Manual #04

“Home Tasks”



Course: **Fundamentals of Programming (CS 114)**

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Section	C

Task 1

.vscode > HomeTask1.cpp

```
1  #include <iostream>
2  using namespace std;
3  int main ()
4  {
5      cout<<"Prints the numbers from 1 to 150 except the multiples of 10"<<endl;
6      for ( int n=1;n< 150;n++)
7      {
8          if (n%10==0){
9              continue;}
10         cout<<n<< endl;
11     }
12     return 0;
13 }
14 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

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PS C:\Users\muham\Documents\Fundamentals of Programming\FOP-Lab-Abdullah\.vscode> cd "c:\Users\muham\Documents\Fundamentals of Programming\FOP-Lab-Abdullah\"
(\$?) { g++ HomeTask1.cpp -o HomeTask1 } ; if (\$?) { .\HomeTask1 }cd "c:\Users\muham\Documents\Fundamentals of Programming\FOP-Lab-Abdullah\"
Task1.cpp -o HomeTask1 } ; if (\$?) { .\HomeTask1 }

Prints the numbers from 1 to 150 except the multiples of 10

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Task 2

```
.vscode > G+ HomeTask2.cpp
1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5      int n, sum = 0;
6      cout << "Enter a Number: ";
7      cin >> n;
8      cout << "the number is: " << n << endl;
9      while(n!=0)
10     {
11         sum = sum + n%10;
12         n = n / 10;
13     }
14     //output
15     cout << "Sum of digits: " << sum;
16     return 0;
17 }

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\muham\Documents\Fundamentals of Programming\FOP-Lab-Abdullah> cd "c:\Users\muham\Documents\Fundamentals of Programming\FOP-Lab-Abdullah\.vscode\" ; if ($?) { g++ HomeTask2.cpp -o HomeTask2 } ; if ($?) { .\HomeTask2 }
Enter a Number: 5656
the number is: 5656
Sum of digits: 22
PS C:\Users\muham\Documents\Fundamentals of Programming\FOP-Lab-Abdullah\.vscode> 
```

Task 3

```
.vscode > G+ HomeTask3.cpp
1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5      int n, x = 0;
6      cout << "Enter a number:";
7      cin >> n;
8      for (int x = 2; x < n; x++)
9      {
10         if (n % x == 0)
11         {
12             cout << "Not a Prime Number";
13             return 0;
14         }
15     }
16     cout << "Prime Number";
17     return 0;
18 }

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\muham\Documents\Fundamentals of Programming\FOP-Lab-Abdullah\.vscode> cd "c:\Users\muham\Documents\Fundamentals of Programming\FOP-Lab-Abdullah\.vscode\" ; if ($?) { g++ HomeTask3.cpp -o HomeTask3 } ; if ($?) { .\HomeTask3 }
Enter a number:22
Not a Prime Number
PS C:\Users\muham\Documents\Fundamentals of Programming\FOP-Lab-Abdullah\.vscode> 
```