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Roll No. 22i-0465

Lab 07

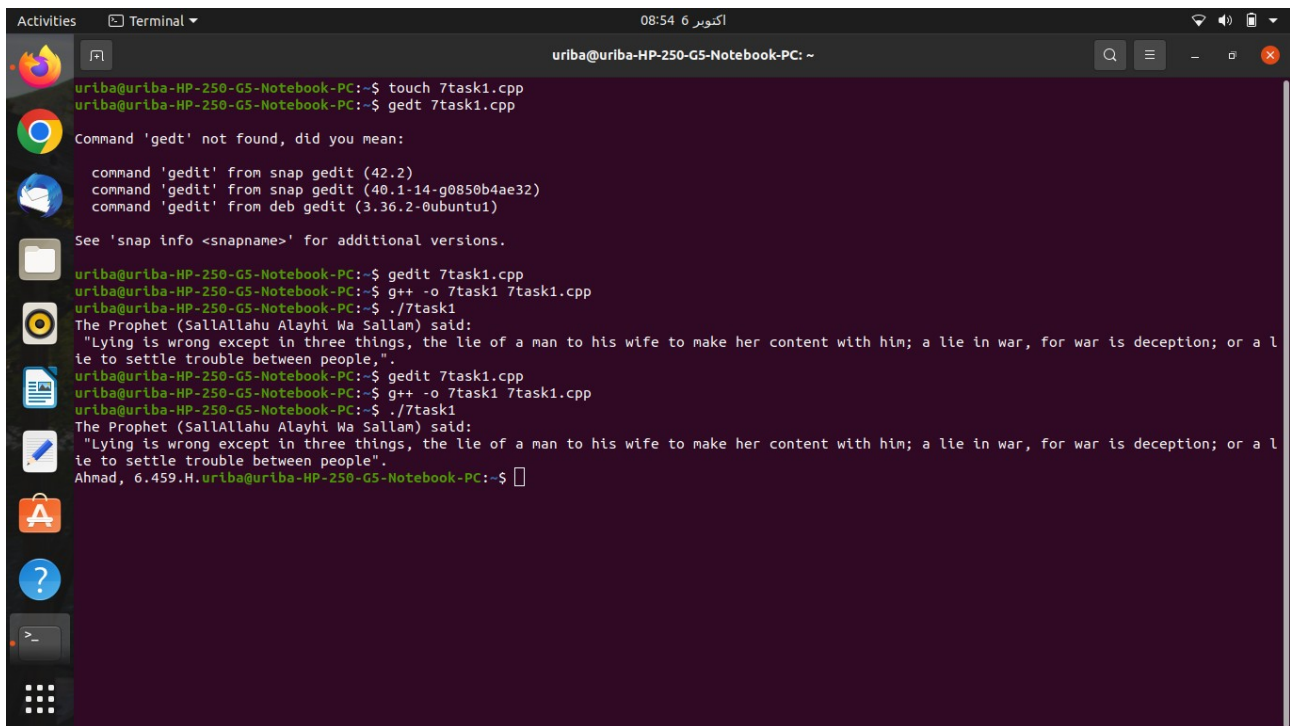
Task 01:

Code:

```
#include<iostream>
using namespace std;
int main()
{
    cout<<"The Prophet (SallAllahu Alayhi Wa Sallam) said:\n \"Lying is wrong except in three things, the lie of a man to his wife to make her content with him; a lie in war, for war is deception; or a lie to settle trouble between people\".\nAhmad, 6.459.H.";

    return 0;
}
```

Output:



```
uriba@uriba-HP-250-G5-Notebook-PC:~$ touch 7task1.cpp
uriba@uriba-HP-250-G5-Notebook-PC:~$ gedit 7task1.cpp
Command 'gedt' not found, did you mean:
  command 'gedit' from snap gedit (42.2)
  command 'gedit' from snap gedit (40.1-14-g0850b4ae32)
  command 'gedit' from deb gedit (3.36.2-0ubuntu1)
See 'snap info <snapname>' for additional versions.
uriba@uriba-HP-250-G5-Notebook-PC:~$ gedit 7task1.cpp
uriba@uriba-HP-250-G5-Notebook-PC:~$ g++ -o 7task1 7task1.cpp
uriba@uriba-HP-250-G5-Notebook-PC:~$ ./7task1
The Prophet (Sallallahu Alayhi Wa Sallam) said:
"Lying is wrong except in three things, the lie of a man to his wife to make her content with him; a lie in war, for war is deception; or a lie to settle trouble between people."
uriba@uriba-HP-250-G5-Notebook-PC:~$ gedit 7task1.cpp
uriba@uriba-HP-250-G5-Notebook-PC:~$ g++ -o 7task1 7task1.cpp
uriba@uriba-HP-250-G5-Notebook-PC:~$ ./7task1
The Prophet (Sallallahu Alayhi Wa Sallam) said:
"Lying is wrong except in three things, the lie of a man to his wife to make her content with him; a lie in war, for war is deception; or a lie to settle trouble between people."
Ahmad, 6.459.H. uriba@uriba-HP-250-G5-Notebook-PC:~$
```

Task 02:

Code:

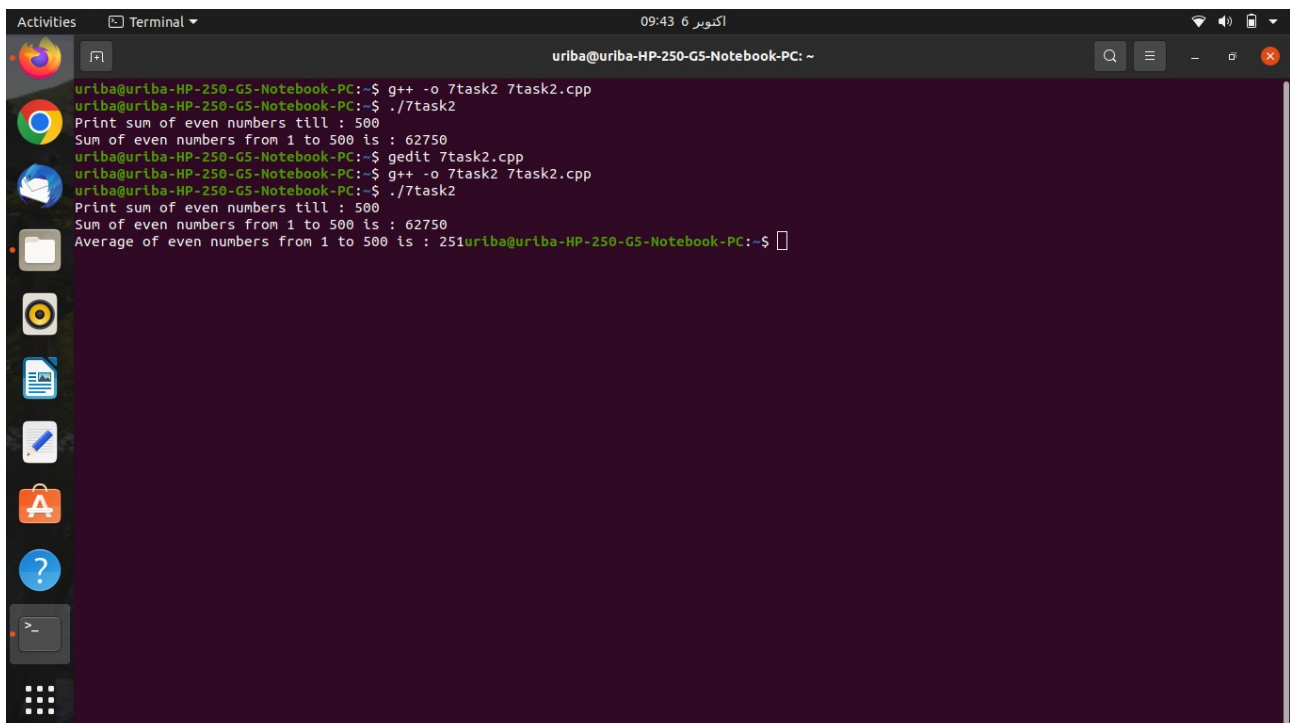
```
#include<iostream>
using namespace std;
int main()
{
int num, sum=0, count=0;
float avg;
cout<<"Print sum of even numbers till : ";
cin>>num;

for(int i=2;i<=num; i=i+2)
{
sum=sum+i;
count=count+1;
}
avg=sum/count;
```

```
cout<<"Sum of even numbers from 1 to 500 is :  
"<<sum<<endl;  
cout<<"Average of even numbers from 1 to 500 is :  
"<<avg;  
  
return 0;  
}
```

Output:

Task 03:



```
uriba@uriba-HP-250-G5-Notebook-PC:~$ g++ -o 7task2 7task2.cpp  
uriba@uriba-HP-250-G5-Notebook-PC:~$ ./7task2  
Print sum of even numbers till : 500  
Sum of even numbers from 1 to 500 is : 62750  
uriba@uriba-HP-250-G5-Notebook-PC:~$ gedit 7task2.cpp  
uriba@uriba-HP-250-G5-Notebook-PC:~$ g++ -o 7task2 7task2.cpp  
uriba@uriba-HP-250-G5-Notebook-PC:~$ ./7task2  
Print sum of even numbers till : 500  
Sum of even numbers from 1 to 500 is : 62750  
Average of even numbers from 1 to 500 is : 251  
uriba@uriba-HP-250-G5-Notebook-PC:~$
```

Code:

```
#include<iostream>  
using namespace std;
```

```
int main()
{
int num, fact=1;
cout<<"Enter a positive integer: ";
cin>>num;
if(num==0)
{
cout<<"factorial of 0 is"<<fact;;
}
else if(num>0)
{
for(int i=num; i>=1; i--)
{
fact=fact*i;
}
cout<<"Factorial of "<<num<<" is : "<<fact;
}
else
{
cout<<"Error! Factorial of a negative number doesn't
exist.";
}

return 0;
}
```

Output:

```
uriba@uriba-HP-250-G5-Notebook-PC:~/lab_7_22i0465$ ./7task3
Enter a positive integer: 6
Factorial of 6 is : 720
uriba@uriba-HP-250-G5-Notebook-PC:~/lab_7_22i0465$ ./7task3
Enter a positive integer: 5
Factorial of 5 is : 120
uriba@uriba-HP-250-G5-Notebook-PC:~/lab_7_22i0465$ ./7task3
Enter a positive integer: -78
Error! Factorial of a negative number doesn't exist.
uriba@uriba-HP-250-G5-Notebook-PC:~/lab_7_22i0465$ ./7task3
Enter a positive integer: 0
Factorial of 0 is 1
uriba@uriba-HP-250-G5-Notebook-PC:~/lab_7_22i0465$
```

Task 05:

Code:

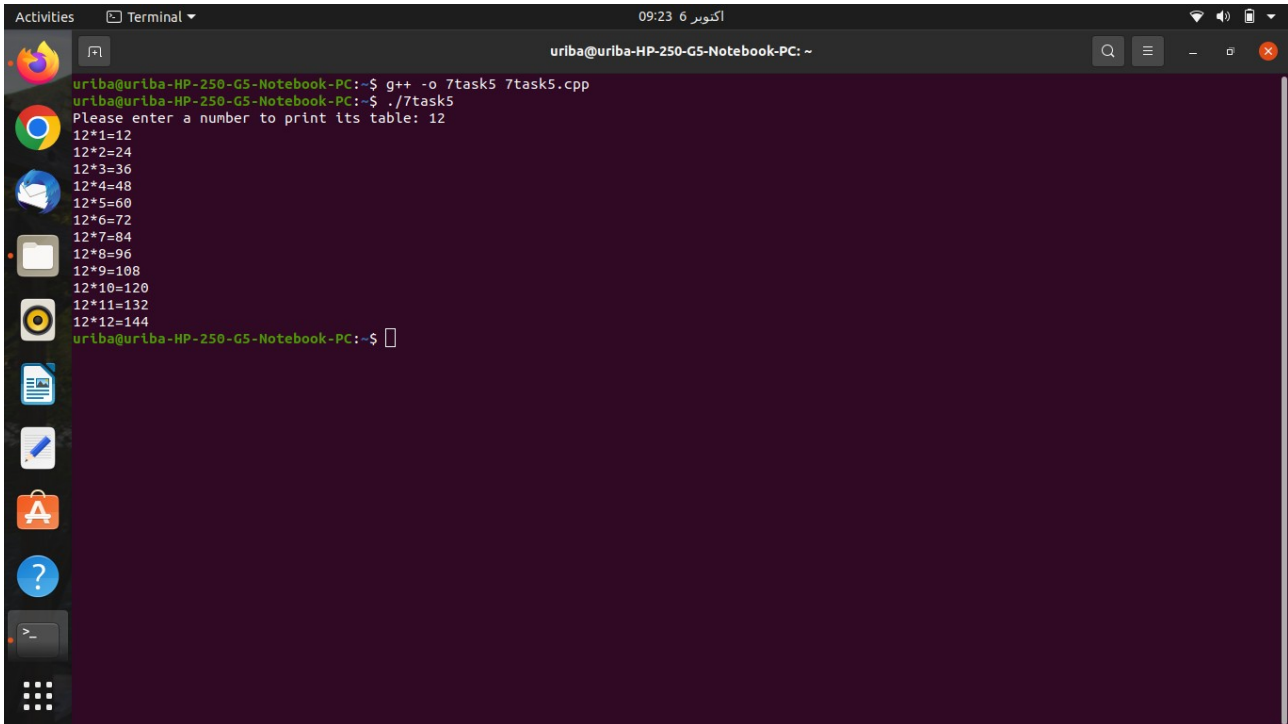
```
#include<iostream>
using namespace std;
int main()
{
    int num;
    cout<<"Please enter a number to print its table: ";
    cin>>num;
    for(int i=1; i<=12; i++)
    {

        cout<<num<<"*"<<i<<"="<<num*i<<endl;
    }

    return 0;
```

}

Output:



```
uriba@uriba-HP-250-G5-Notebook-PC:~$ g++ -o 7task5 7task5.cpp
uriba@uriba-HP-250-G5-Notebook-PC:~$ ./7task5
Please enter a number to print its table: 12
12*1=12
12*2=24
12*3=36
12*4=48
12*5=60
12*6=72
12*7=84
12*8=96
12*9=108
12*10=120
12*11=132
12*12=144
uriba@uriba-HP-250-G5-Notebook-PC:~$
```

Task 8:

Code:

```
#include<iostream>
using namespace std;
int main()
{
int digit_1=0, digit_2=0, digit_3=0,a,b, armstrong;
for(int i=100; i<999; i++)
{
digit_1=i/100;
```

```

a=i%100;
digit_2=a/10;
b=a%10;
armstrong=(digit_1*digit_1*digit_1)+
(digit_2*digit_2*digit_2)+(b*b*b);
if(armstrong==i)
{
cout<<"Armstrong number is: "<<armstrong<<endl;
}
}

return 0;
}

```

Output:

```

Activities Terminal 11:21 6 أكتوبر
uriba@uriba-HP-250-G5-Notebook-PC: ~/lab_7_22i0465
uriba@uriba-HP-250-G5-Notebook-PC:~/lab_7_22i0465$ g++ -o 7task8 7task8.cpp
uriba@uriba-HP-250-G5-Notebook-PC:~/lab_7_22i0465$ ./7task8
uriba@uriba-HP-250-G5-Notebook-PC:~/lab_7_22i0465$ ./7task8
Armstrong number is: 153Armstrong number is: 370Armstrong number is: 371Armstrong number is: 407uriba@uriba-HP-250-G5-Notebook-PC:~/lab_7_22i0
465$ gedit 7task8.cpp
uriba@uriba-HP-250-G5-Notebook-PC:~/lab_7_22i0465$ g++ -o 7task8 7task8.cpp
uriba@uriba-HP-250-G5-Notebook-PC:~/lab_7_22i0465$ ./7task8
Armstrong number is: 153
Armstrong number is: 370
Armstrong number is: 371
Armstrong number is: 407
uriba@uriba-HP-250-G5-Notebook-PC:~/lab_7_22i0465$

```