Lab Manual 5 home task:

Question 1:

```cpp
1.  #include <iostream>
2.  using namespace std;
3.  int main(){
4.          int x,y,i=2,hcf=1,a,b,LCM;
5.          cout<<"Enter first larger number";
6.          cin>>x;
7.          cout<<"Enter second smaller number";
8.          cin>>y;
9.          a=x;
10.         b=y;
11.         while(i<=b&&a!=1&&b!=1 ){
12.                 if(a%i==0&&b%i==0){
13.                         hcf=hcf*i;
14.                         a=a/i;
15.                         b=b/i;
16.                         i=2;
17.                 }
18.                 else{
19.                         i++;
20.                 }
21.
22.         }
23.         LCM=a*b*hcf;
24.         cout<<"The LCM is"<<LCM;
25.}
```
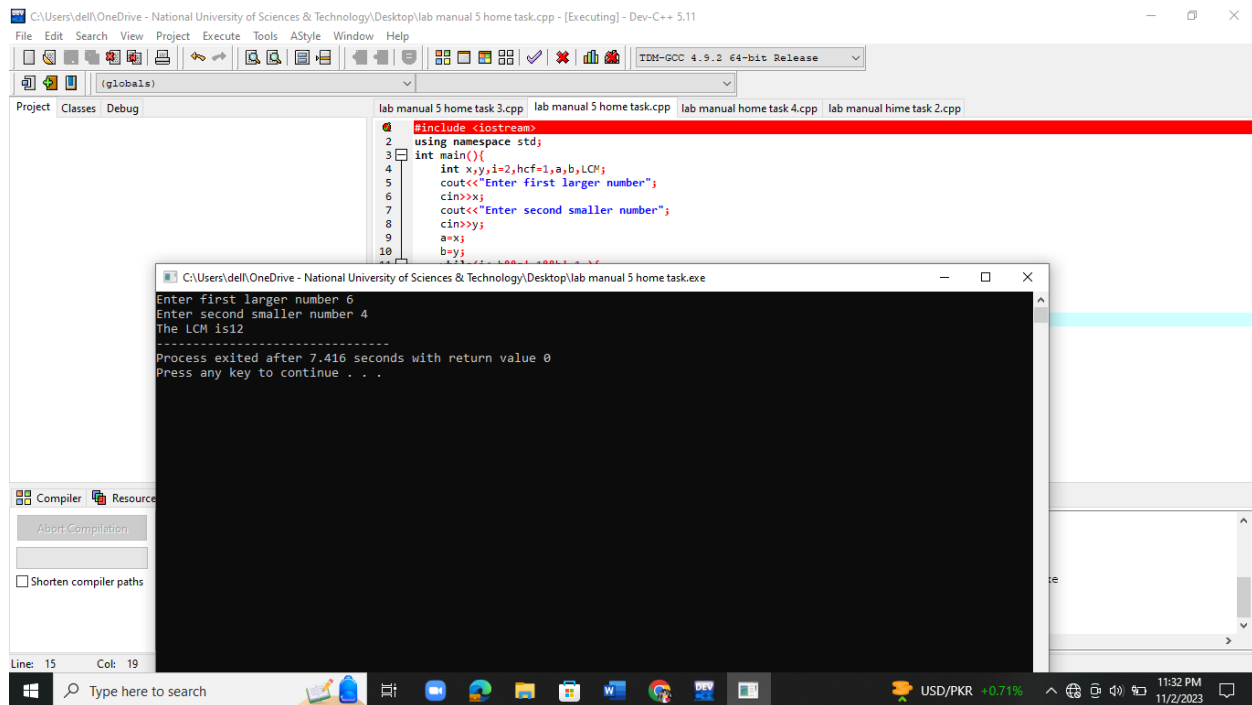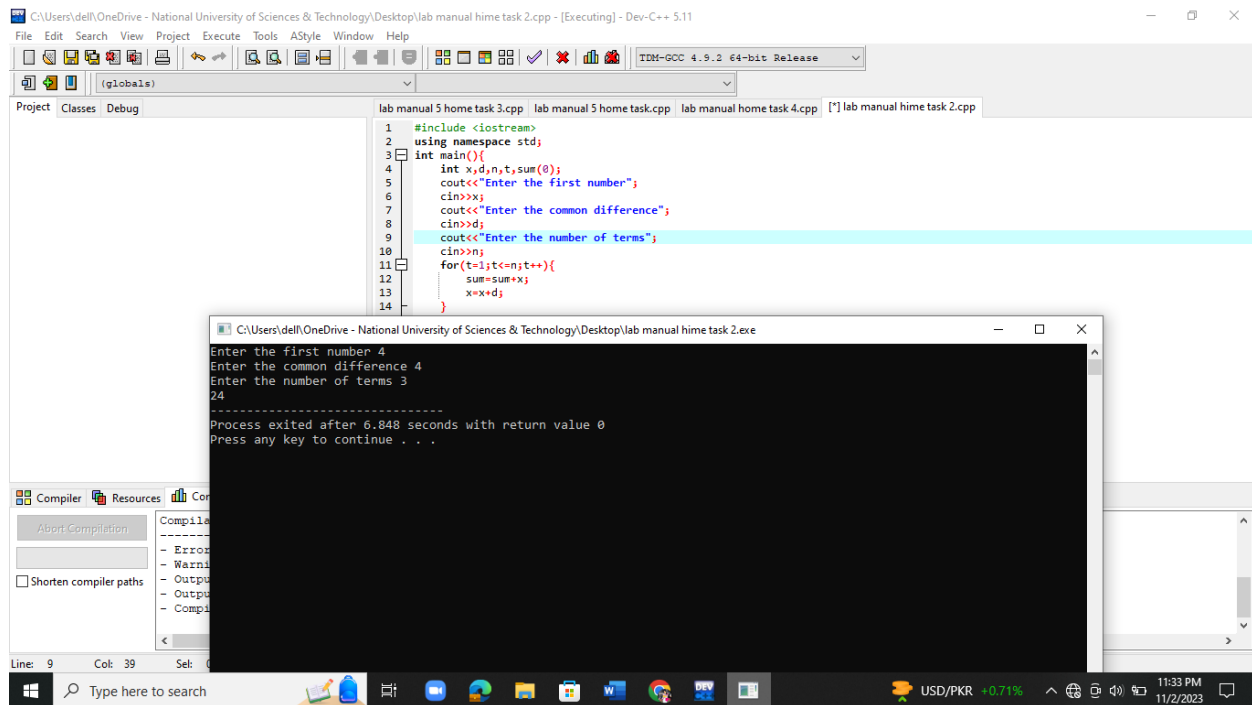
Question 2:

```cpp
1.  #include <iostream>
2.  using namespace std;
3.  int main(){
4.       int x,d,n,t,sum(0);
5.       cout<<"Enter the first number";
6.       cin>>x;
7.       cout<<"Enter the common difference";
8.       cin>>d;
9.       cout<<"Enter the number of terms";
10.      cin>>n;
11.      for(t=1;t<=n;t++){
12.          sum=sum+x;
13.          x=x+d;
14.      }
15.      cout<<sum;
16. }
```
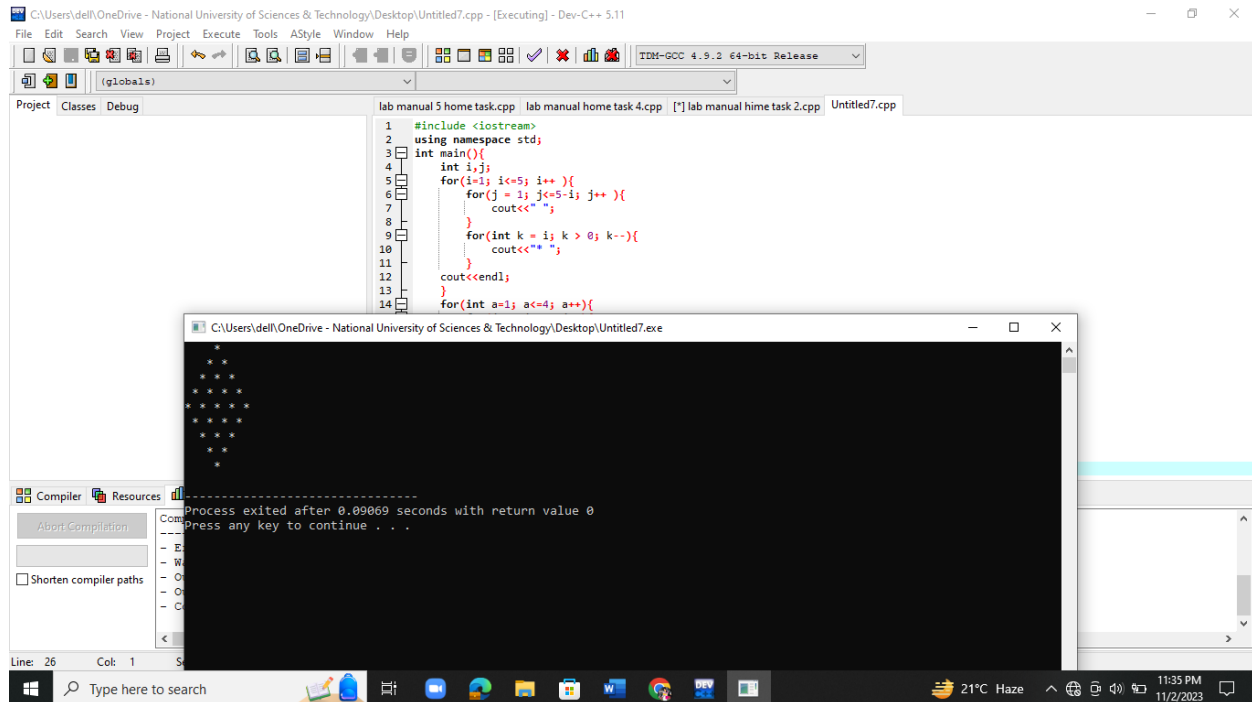
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Project Classes Debug

lab manual 5 home task 3.cpp lab manual 5 home task.cpp lab manual home task 4.cpp [*] lab manual hime task 2.cpp

```cpp
1    #include <iostream>
2    using namespace std;
3    int main(){
4        int x,d,n,t,sum(0);
5        cout<<"Enter the first number";
6        cin>>x;
7        cout<<"Enter the common difference";
8        cin>>d;
9        cout<<"Enter the number of terms";
10       cin>>n;
11       for(t=1;t<=n;t++){
12           sum=sum+x;
13           x=x+d;
14       }
```

C:\Users\dell\OneDrive - National University of Sciences & Technology\Desktop\lab manual hime task 2.exe

```
Enter the first number 4
Enter the common difference 4
Enter the number of terms 3
24
--------------------------------
Process exited after 6.848 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Com

Abort Compilation

☐ Shorten compiler paths

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Question 3:

1. #include <iostream>
2. using namespace std;
3. int main(){
4.   int i,j;
5.   for(i=1; i<=5; i++){
6.   for(j = 1; j<=5-i; j++){
7.   cout<<" ";
8.   }
9.   for(int k = i; k > 0; k--){
10.   cout<<"* ";
11.   }
12.   cout<<endl;
13.   }
14.   for(int a=1; a<=4; a++){
15.   for(j=a; j>=1; j--){
16.   cout<<" ";
17.   }
18.   for(int k=0; k<=4-a; k++){

19.   cout<<"* ";
20.   }
21.   cout<<endl;
22.
23.   }
24.
25.}

Question 4:

1. #include <iostream>
2. using namespace std;
3. int main(){
4.   int x,a=0,i=1;
5.   cout<<"Enter a decimal number";
6.   cin>>x;
7.   while(x!=0){
8.   a=a+(x%2)*i;
9.   x=x/2;
10.   i=i*10;

11.   }
12.   cout<<a;
13.}

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

lab manual 5 home task.cpp lab manual home task 4.cpp [*] lab manual hime task 2.cpp Untitled7.cpp

```cpp
1    #include <iostream>
2    using namespace std;
3    int main(){
4        int x,a=0,i=1;
5        cout<<"Enter a decimal number";
6        cin>>x;
7        while(x!=0){
8            a=a+(x%2)*i;
9            x=x/2;
```

C:\Users\dell\OneDrive - National University of Sciences & Technology\Desktop\lab manual home task 4.exe

```
Enter a decimal number 56
111000
--------------------------------
Process exited after 3.826 seconds with return value 0
Press any key to continue . . .
```

Compiler Resources

Abort Compilation

☐ Shorten compiler paths

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