

Lab manual -5

Home task

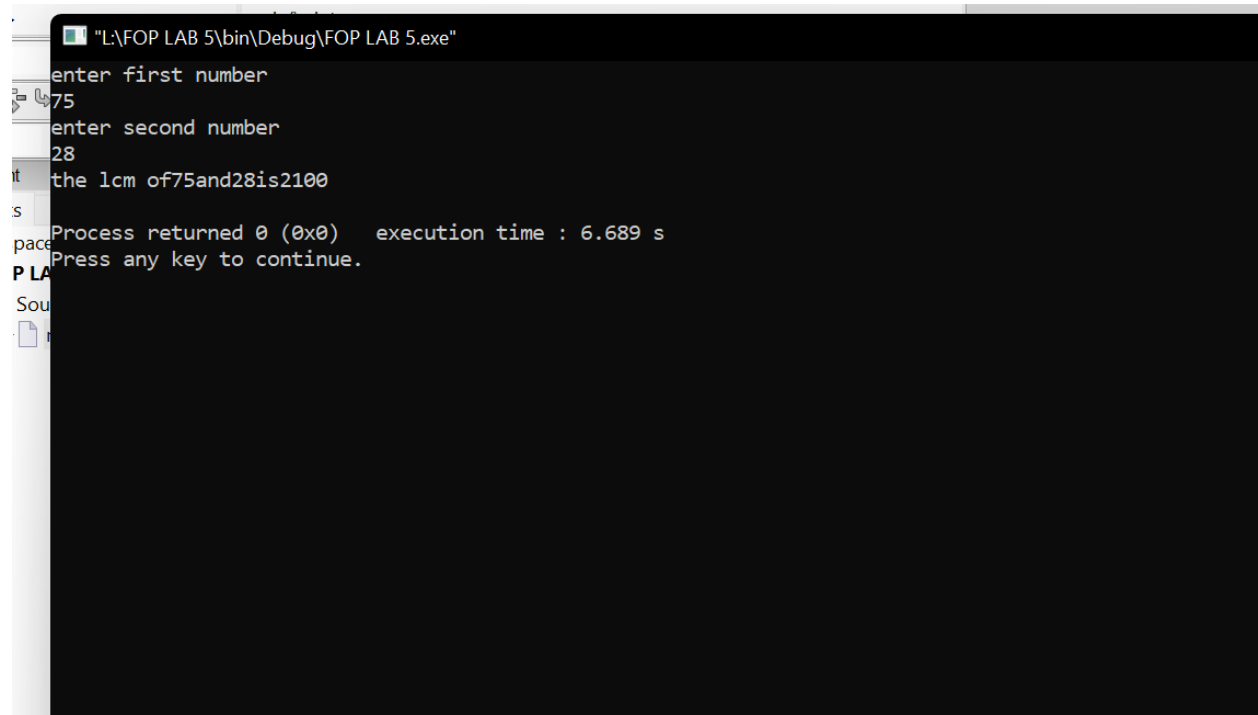
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HOME TASK 1:

```
#include<iostream>

using namespace std;

int main (){
    int i,a,b,c,hcf=1,lcm;
    cout<<"enter first number"<<endl;
    cin>>a;
    cout<<"enter second number"<<endl;
    cin>>b;
    c=(a<b)? a:b;
    for(i=1;i<=c;i++){
        if(a%i==0&& b%i==0){
            hcf=i;
        }
    }
    lcm=(a*b)/hcf;
    cout<<"the lcm of"<<a<<"and"<<b<<"is"<<lcm<<endl;
}
```



```
"L:\FOP LAB 5\bin\Debug\FOP LAB 5.exe"
enter first number
75
enter second number
28
the lcm of 75 and 28 is 2100
Process returned 0 (0x0)   execution time : 6.689 s
Press any key to continue.
```

HOME TASK 2:

```
#include<iostream>

using namespace std;

int main (){
    int a,b,,q,d;

    int total;

    cout<<"enter first number of series"<<endl;
    cin>>a;

    cout<<"enter the number of items"<<endl;
    cin>>b;

    cout<<"enter common difference"<<endl;
    cin>>d;

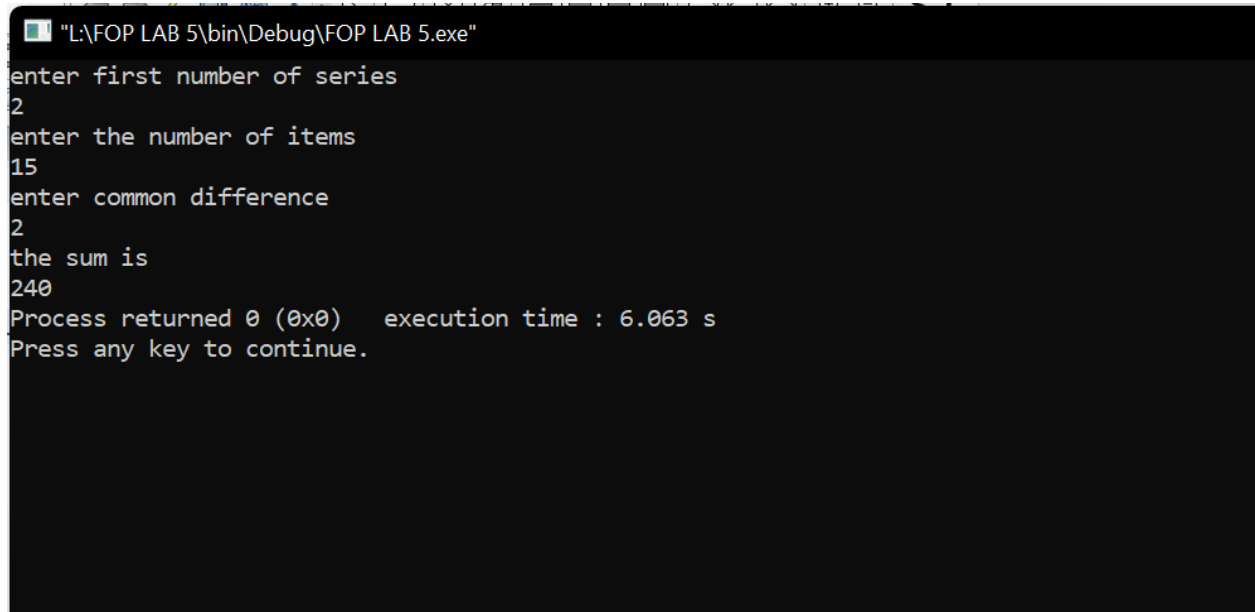
    total=(b*(2*a+(b-1)*d))/2;

    q=a+(b-1)*d;

    cout<<"the sum is"<<endl;
    cout<<total;
```

```
return 0;
```

```
}
```



```
"L:\FOP LAB 5\bin\Debug\FOP LAB 5.exe"  
enter first number of series  
2  
enter the number of items  
15  
enter common difference  
2  
the sum is  
240  
Process returned 0 (0x0) execution time : 6.063 s  
Press any key to continue.
```

HOME TASK 3:

```
#include<iostream>
```

```
using namespace std;
```

```
int main (){
```

```
    int a,b;
```

```
    for(a=1;a<=5;a++){
```

```
        for(b=1;b<=5;b++){
```

```
            if((a+b)>=6){
```

```
                cout<<" *";}
```

```
            else
```

```
                cout<<" ";
```

```
        }
```

```
        cout<<"\n";
```

```
    }
```

```
    for(a=1;a<=5;a++){
```

```

        for(b=1;b<=5;b++){
            if(a<=b){
                cout<<" *";
            }
            else
                cout<<" ";
        }
        cout<<"\n";
    }
    return 0;
}

```

```

L:\FOP LAB 5\bin\Debug\FOP LAB 5.exe
  *
 * *
* * *
* * * *
* * * * *
* * * * *
* * * *
 * * *
  * *
   *

Process returned 0 (0x0)   execution time : 0.109 s
Press any key to continue.

```

HOMETASK 4:

```

#include<iostream>

using namespace std;

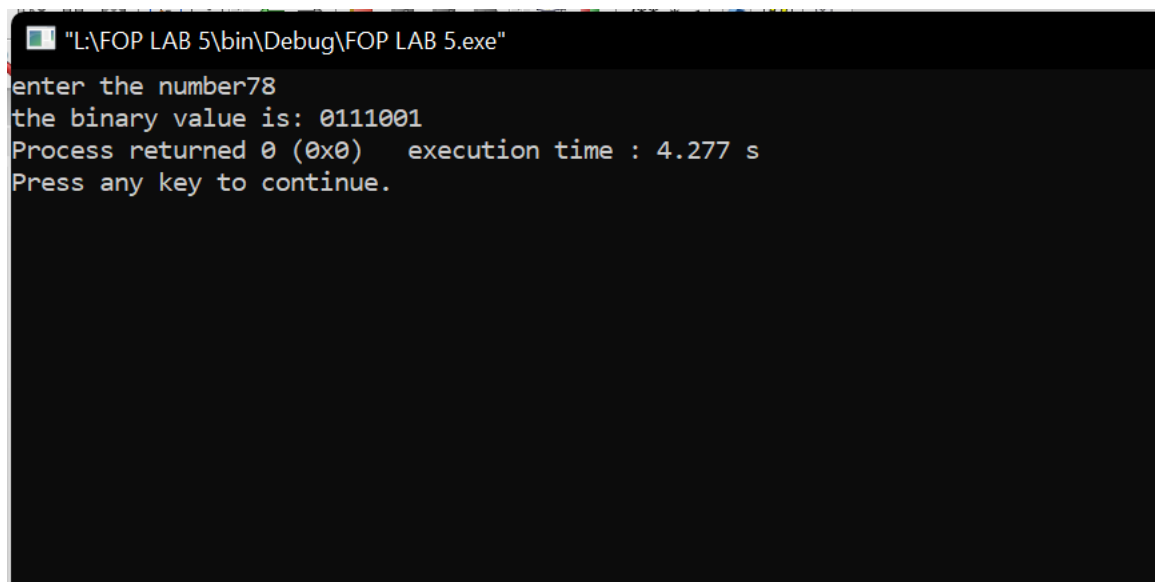
int main (){
    int a,bin;

    cout<<"enter the number";

    cin>>a;
}

```

```
cout<<"the binary value is: ";  
while(a>0){  
    bin=a%2;  
    cout<<bin;  
    a/=2;  
}  
return 0;  
}
```



The screenshot shows a Windows command prompt window with the title bar "L:\FOP LAB 5\bin\Debug\FOP LAB 5.exe". The window contains the following text:

```
enter the number78  
the binary value is: 0111001  
Process returned 0 (0x0)   execution time : 4.277 s  
Press any key to continue.
```