

Question 1

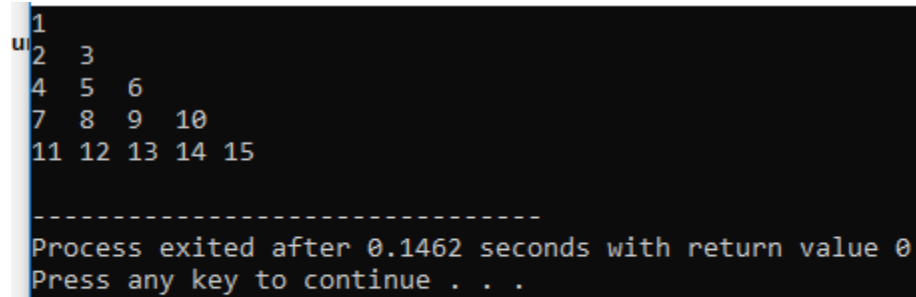
```
#include<iostream>

using namespace std;

int main()
{
    cout<<"1"<<endl;
    cout<<"2 3"<<endl;
    cout<<"4 5 6"<<endl;
    cout<<"7 8 9 10"<<endl;
    cout<<"11 12 13 14 15"<<endl;

    return 0;

}
```



```
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15

-----
Process exited after 0.1462 seconds with return value 0
Press any key to continue . . .
```

Question 2:

```
#include<iostream>

using namespace std;

int main()
{
```

```
int years,months,days;

cout<<"Enter days"<<endl;
cin>>days;
years=days/365;
days=days%365;
months=days/30;
days=days%30;

cout<<"years"<<years<<endl;
cout<<"months"<<months<<endl;
cout<<"days"<<days<<endl;

return 0;

}
```

```
Enter days
356
years2
months4
days6
-----
Process exited after 2.182 seconds with return value 0
Press any key to continue . . .
```

Question 3

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int a = 102, b = 120, temp;
```

```
    cout << "Before swapping." << endl;
```

```
    cout << "a = " << a << ", b = " << b << endl;
```

```
    temp = a;
```

```
    a = b;
```

```
    b = temp;
```

```
    cout << "\nAfter swapping." << endl;
```

```
    cout << "a = " << a << ", b = " << b << endl;
```

```
    return 0;
```

```
}
```

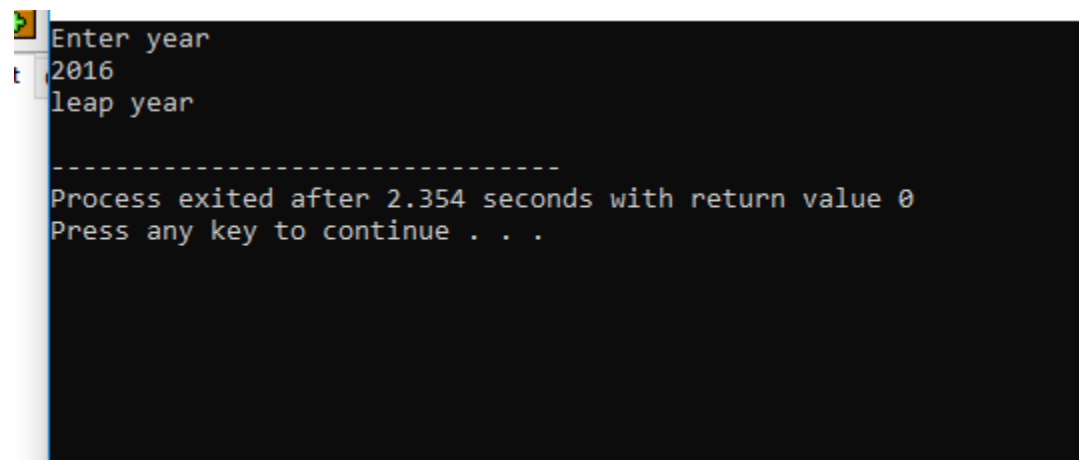
```
Before swapping.  
a = 102, b = 120  
  
After swapping.  
a = 120, b = 102  
  
-----  
Process exited after 0.4419 seconds with return value 0  
Press any key to continue . . .
```

Question 4

```
#include<iostream>  
  
using namespace std;  
  
int main()  
{  
    int year;  
    cout<<"Enter year"<<endl;  
    cin>>year;  
    if(year%4==0)  
  
    {  
  
        cout<<"leap year"<<endl;  
  
    }  
    {  
  
        if(year%4!=0)
```

```
        cout<<"Not leap year";  
    }
```

```
}
```

A screenshot of a C++ program execution. The program prompts the user to "Enter year", and the user enters "2016". The program then outputs "leap year". Below this, a separator line of dashes is shown, followed by the message "Process exited after 2.354 seconds with return value 0" and "Press any key to continue . . .".

```
Enter year  
2016  
leap year  
  
-----  
Process exited after 2.354 seconds with return value 0  
Press any key to continue . . .
```