

Introduction to Relational, Logical Operators, Selection Statements LAB # 03



Spring 2022

CSE-102L COMPUTER PROGRAMMING LAB

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Section: C

"On my honor, as student of University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work."

Student Signature: _____

Submitted to:

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(July 2022)

Department of Computer Systems Engineering University of
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Lab 3: Introduction to Relational, Logical Operators, Selection Statements

Objectives:

To be familiar with Relational & Logical Operators

To understand the programming knowledge using Selection Statements (if, if-else, if-else ladder, Nested if-else and Switch)

Task Titles:

1. Display the largest among three numbers using if else statement?
2. Check whether a number is even or odd?
3. Check the greater of two numbers using ternary operator?
4. Write a program where you print you take a number from the user if the number is greater than 2 and then print your name and registration number 2 times or else print only 1 time.
5. Write a program that asks a number and test the number whether it is multiple of 5 or not, divisible by 7 but not by eleven. (all three conditions should match)
6. Check whether the entered character is vowel or consonant?
7. Write a program that takes the weekday number as input from user and print the day name of week
E.g., Print Monday if weekday number is equal to 1. Similarly, check condition for all 7 days and print the corresponding day name. Print an error message if an invalid number is entered.
8. Write a C++ program to enter month number between (1-12) and print number of days in month.
9. Write a program to calculate and print the Electricity bill of a given customer. The customer id and unit consumed by the user should be taken from the keyboard and display the total amount to pay to the customer. The charges are as follow:

Unit	Charge/unit
Up to 199	@ 1.20
200 and above but less than 400	@ 1.50
400 and above but less than 600	@ 1.80

600 and above	@2.00
---------------	-------

If bill exceeds Rs. 400 then a surcharge of 15% will be charged

Test Data:

1001

800

Expected Output:

Customer IDNO: 1001

Units Consumed: 800

Amount Charges @Rs. 2.00 per unit: 1600.00

Surcharge Amount: 240.00

Net Amount Paid by the Customer: 1840.00

COMPUTER PROGRAMMING LAB # 3**Answer #1****CODE:**

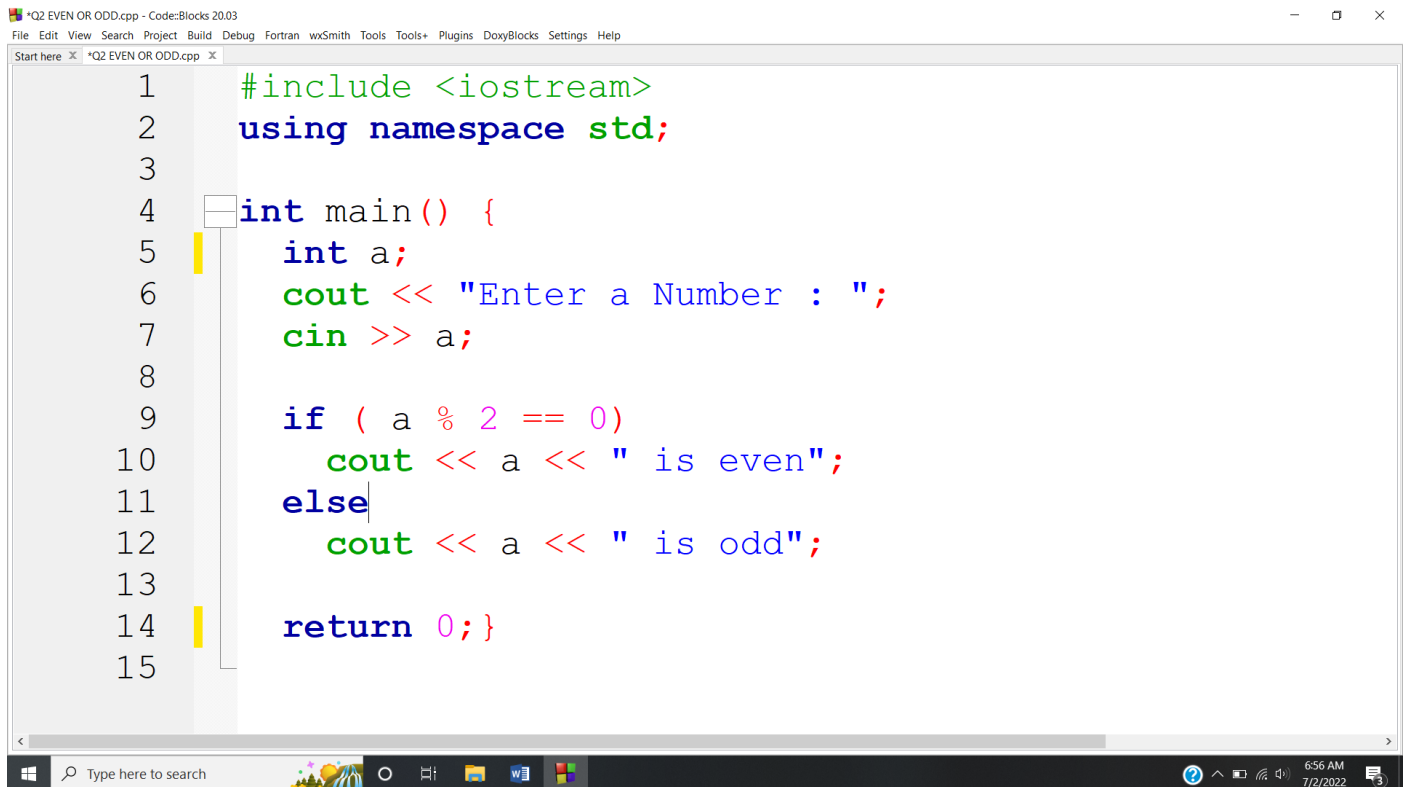
```
*Q1 LARGEST AMONG THREE IF ELSE.cpp - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Start here x *Q1 LARGEST AMONG THREE IF ELSE.cpp x
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5
6      int num=10, num2=5, num3=15;
7      if (num >= num2) {
8          if (num >= num3)
9              cout << "Largest number: " << num;
10         else
11             cout << "Largest number: " << num3;}
12     else {
13         if (num2 >= num3)
14             cout << "Largest number: " << num2;
15         else
16             cout << "Largest number: " << num3;}
17
18     return 0;}
```

OUTPUT:

```
"D:\2nd semester\Computer programming lab\lab class 3\QUESTIONS\Q1 LARGEST AMONG THREE IF ELSE.exe"
Largest number: 15
Process returned 0 (0x0)    execution time : 0.061 s
Press any key to continue.
```

Answer #2

CODE:



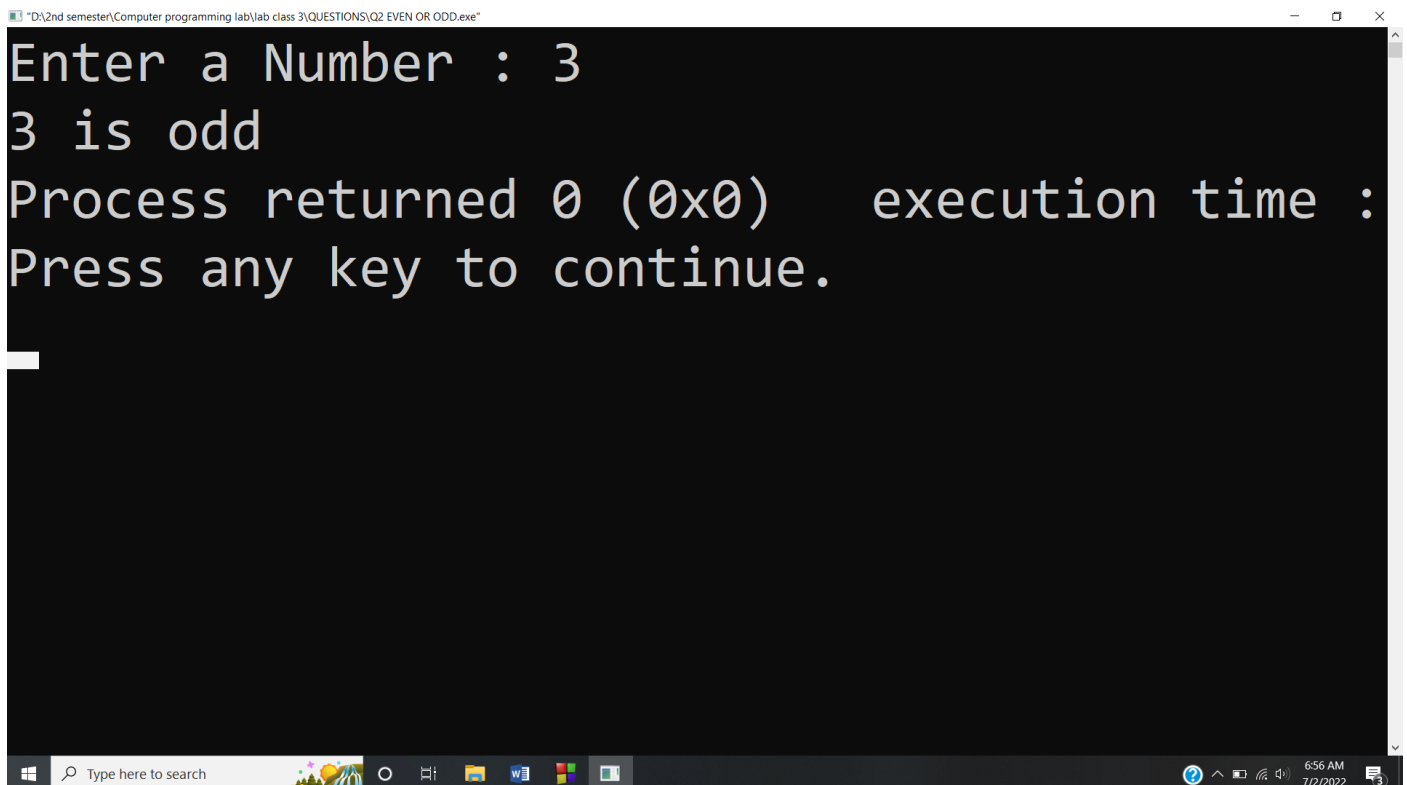
```
#include <iostream>
using namespace std;

int main() {
    int a;
    cout << "Enter a Number : ";
    cin >> a;

    if ( a % 2 == 0)
        cout << a << " is even";
    else
        cout << a << " is odd";

    return 0;}
```

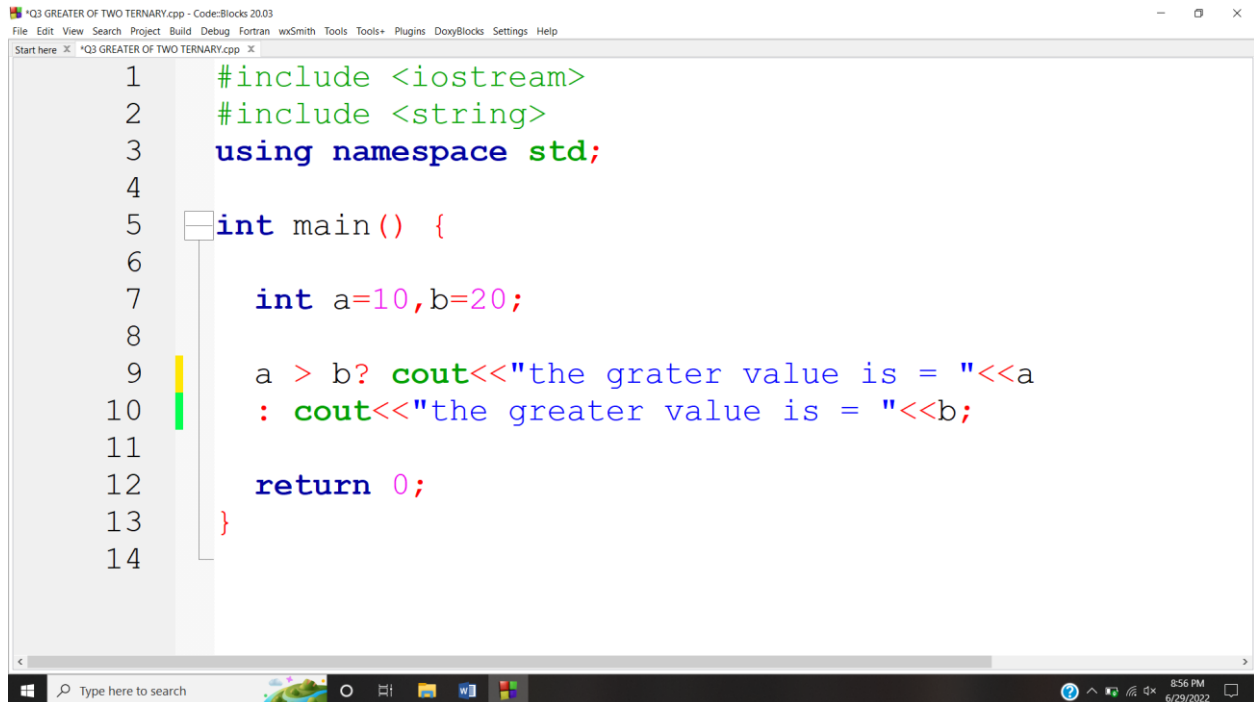
OUTPUT:



```
Enter a Number : 3
3 is odd
Process returned 0 (0x0)    execution time :
Press any key to continue.
```

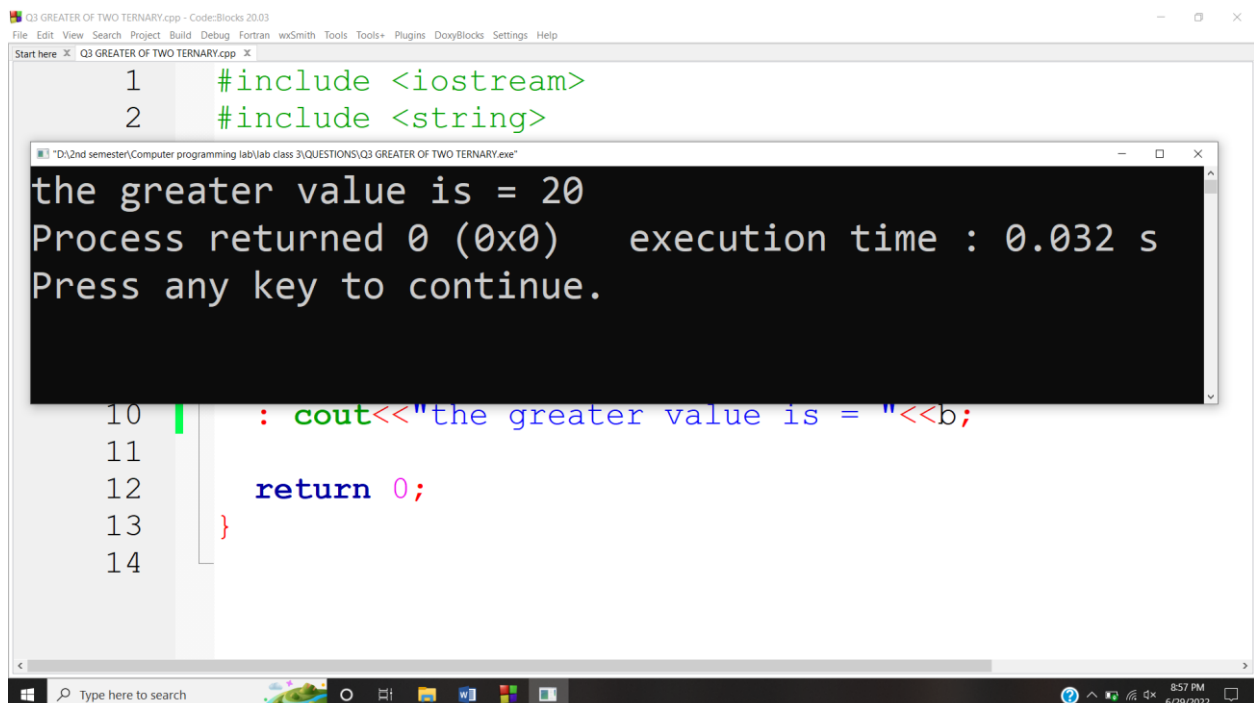
Answer #3

CODE:



```
1  #include <iostream>
2  #include <string>
3  using namespace std;
4
5  int main() {
6
7      int a=10,b=20;
8
9      a > b? cout<<"the grater value is = "<<a
10     : cout<<"the greater value is = "<<b;
11
12     return 0;
13 }
14
```

OUTPUT:



```
the greater value is = 20
Process returned 0 (0x0)   execution time : 0.032 s
Press any key to continue.
```

Answer #4

CODE:

```
Q4 PRINTING NAME REG NO.cpp - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Start here x Q4 PRINTING NAME REG NO.cpp x
1      #include <iostream>
2      #include <string>
3      using namespace std;
4
5      int main() {
6          int number;
7          cout<<"Enter number : ";
8          cin>>number;
9
10         if(number>2){
11             cout<<"NAME : MUHAMMAD SADEEQ"<<endl;
12             cout<<"REG NO : 21PWCSE2028"<<endl;
13             cout<<"NAME : MUHAMMAD SADEEQ"<<endl;
14             cout<<"REG NO : 21PWCSE2028"<<endl;
15         }
16         else{
17             cout<<"NAME : MUHAMMAD SADEEQ"<<endl;
18             cout<<"REG NO : 21PWCSE2028"<<endl;
19         }
20         return 0;
}
```

OUTPUT:

```
"D:\2nd semester\Computer programming lab\lab class 3\QUESTIONS\Q4 PRINTING NAME REG NO.exe"
Enter number : 5
NAME : MUHAMMAD SADEEQ
REG NO : 21PWCSE2028
NAME : MUHAMMAD SADEEQ
REG NO : 21PWCSE2028

Process returned 0 (0x0)   execution time : 1.924 s
Press any key to continue.
```

Answer #5

CODE:

```
Q5 MULTIPLE OF 5 OR NOT.cpp - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Start here x Q5 MULTIPLE OF 5 OR NOT.cpp x
1  #include <iostream>
2  #include <string>
3  using namespace std;
4
5  int main() {
6
7      int b;
8      cout<<"Enter b number : ";
9      cin>>b;
10     if(b%5==0&& b%7==0&& b%11!=0) {
11         cout<<"*****" << endl;
12         cout<<b<<" is multiple of 5 and divisible by 7 and not by 11" << endl;
13         cout<<"*****" << endl;
14         return 0; }
15 }
```

OUTPUT:

```
"D:\2nd semester\Computer programming lab\lab class 3\QUESTIONS\Q5 MULTIPLE OF 5 OR NOT.exe"
Enter b number : 35
*****
35 is multiple of 5 and divisible by 7 and not by 11
*****
Process returned 0 (0x0)    execution time : 1.472 s
Press any key to continue.
```


Answer #6

CODE:

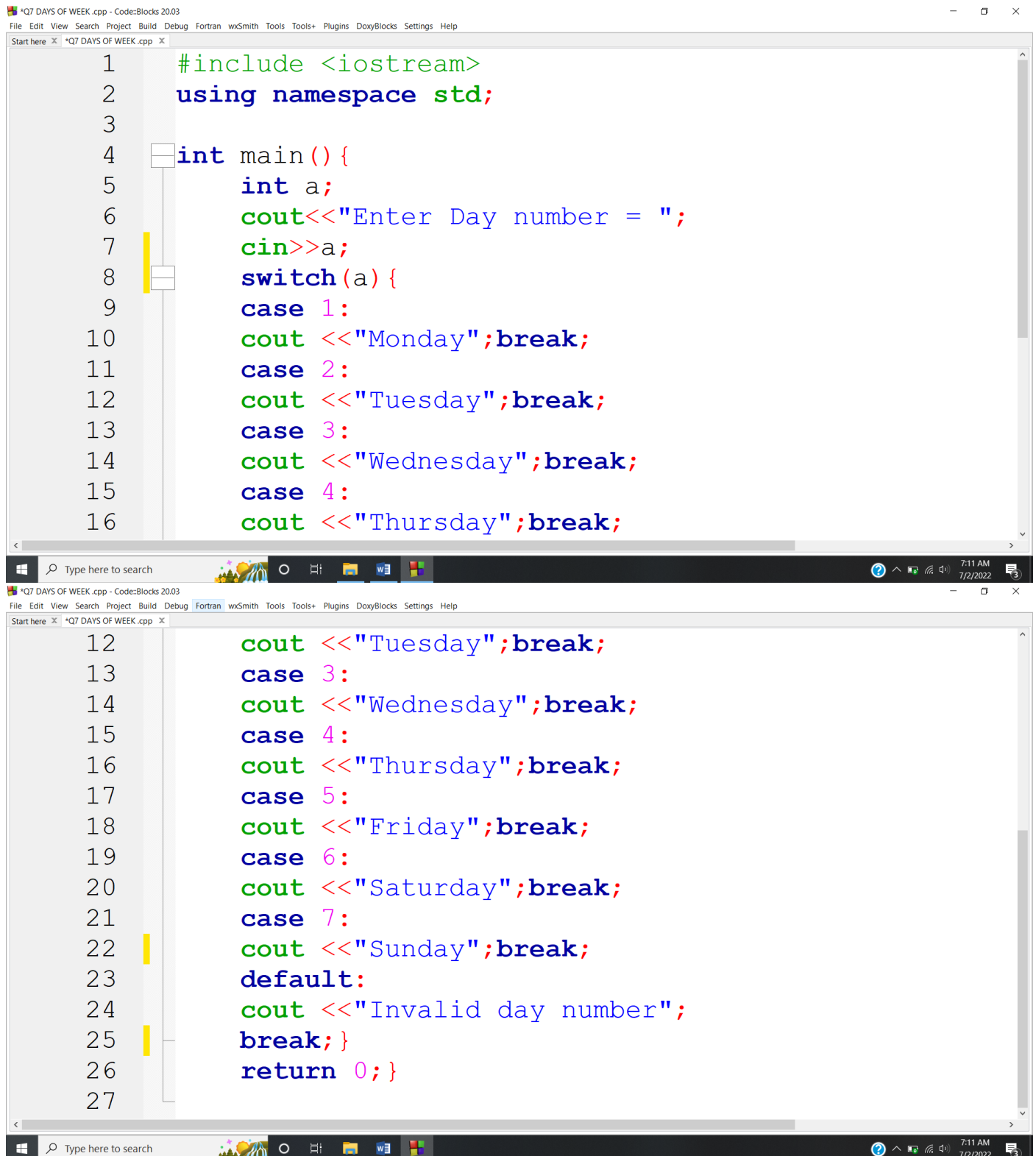
```
Q6 VOWEL TEST.cpp - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Start here x Q6 VOWEL TEST.cpp x
1  #include <iostream>
2  using namespace std;
3
4  int main(){
5      char a;
6      cout<<"Enter Character = ";
7      cin>>a;
8
9      switch(a){
10         case 'a':
11             cout <<"The enter character is vowel = "<<a;break;
12         case 'e':
13             cout <<"The enter character is vowel = "<<a;break;
14         case 'i':
15             cout <<"The enter character is vowel = "<<a;break;
16         case 'o':
17             cout <<"The enter character is vowel = "<<a;break;
18         case 'u':
19             cout <<"The enter character is vowel = "<<a;break;
20         default:
21             cout <<"The enter character is consonant = "<<a;break;}
22     return 0;}
```

OUTPUT:

```
"D:\2nd semester\Computer programming lab\lab class 3\QUESTIONS\Q6 VOWEL TEST.exe"
Enter Character = a
The enter character is vowel = a
Process returned 0 (0x0)   execution time
Press any key to continue.
```

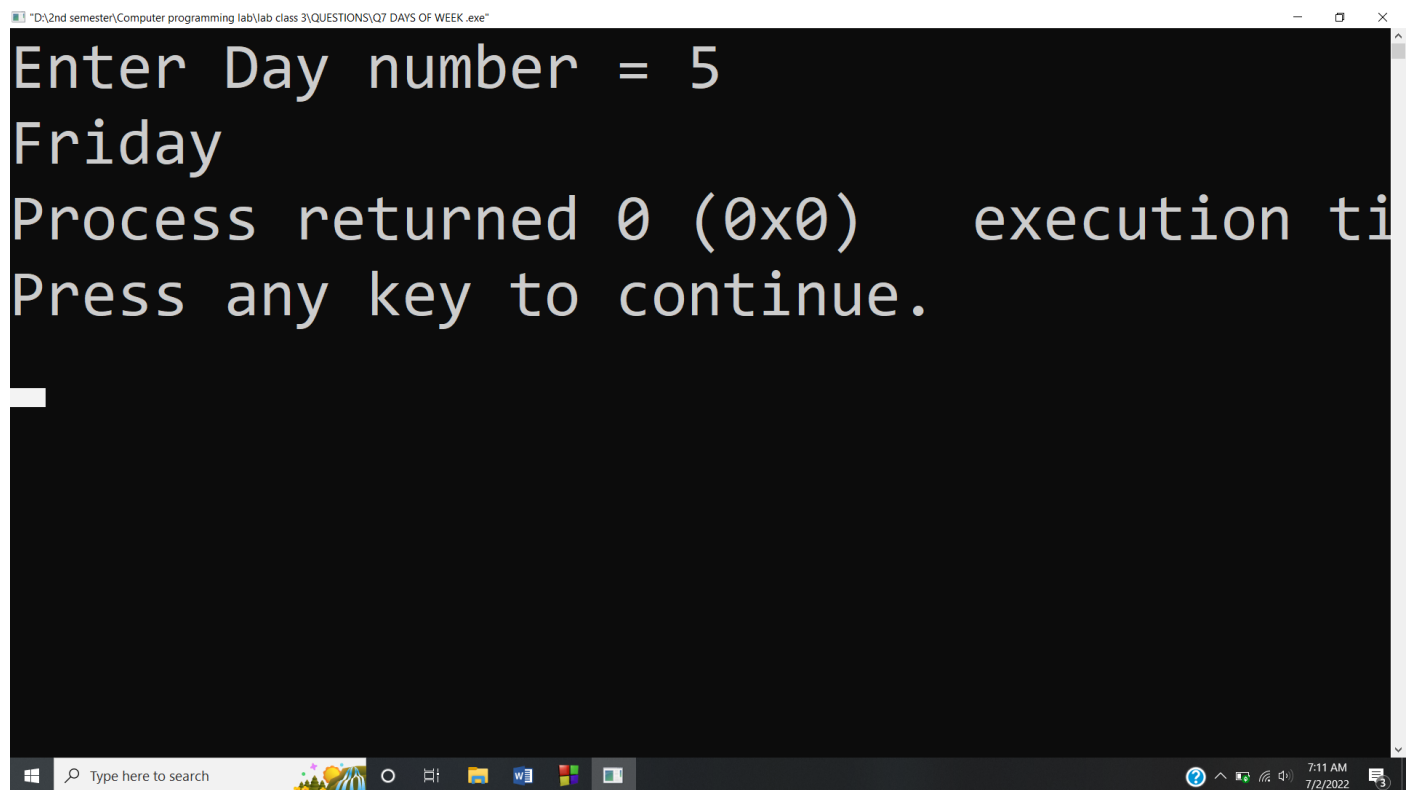
Answer #7

CODE:



```
*Q7 DAYS OF WEEK.cpp - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

Start here x *Q7 DAYS OF WEEK.cpp x
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int a;
6      cout<<"Enter Day number = ";
7      cin>>a;
8      switch(a) {
9          case 1:
10         cout <<"Monday";break;
11         case 2:
12         cout <<"Tuesday";break;
13         case 3:
14         cout <<"Wednesday";break;
15         case 4:
16         cout <<"Thursday";break;
17
18         case 5:
19         cout <<"Friday";break;
20         case 6:
21         cout <<"Saturday";break;
22         case 7:
23         cout <<"Sunday";break;
24         default:
25         cout <<"Invalid day number";
26         break; }
27         return 0; }
```

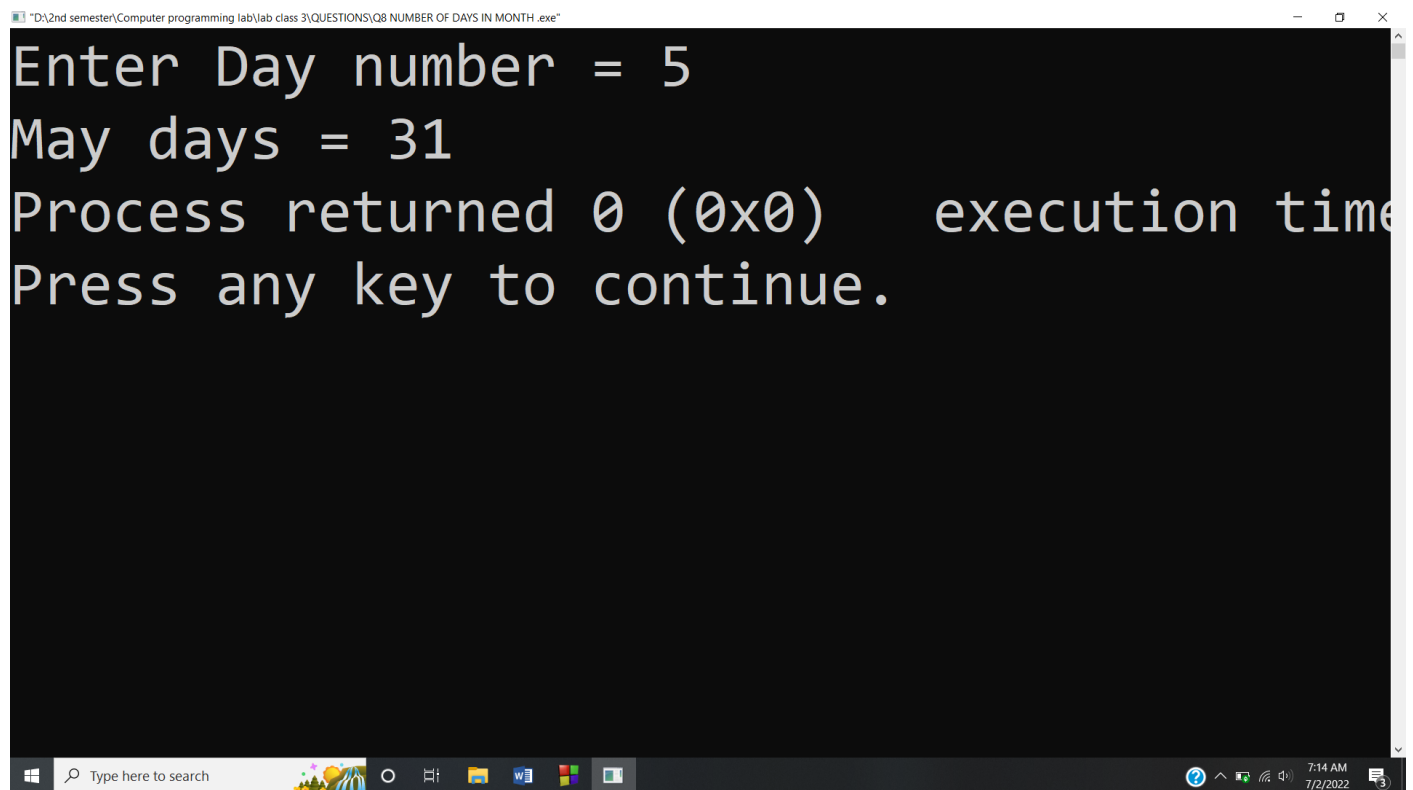
OUTPUT:

```
"D:\2nd semester\Computer programming lab\lab class 3\QUESTIONS\Q7 DAYS OF WEEK.exe"
Enter Day number = 5
Friday
Process returned 0 (0x0)   execution ti
Press any key to continue.
```

Answer #8

CODE:

```
*Q8 NUMBER OF DAYS IN MONTH.cpp - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Start here x *Q8 NUMBER OF DAYS IN MONTH.cpp x
1      #include <iostream>
2      using namespace std;
3
4      int main(){
5          int a;
6          cout<<"Enter Day number = ";
7          cin>>a;
8
9          switch(a) {
10             case 1:
11                 cout <<"January days = "<<31;break;
12             case 2:
13                 cout <<"February days = "<<28<<"or"<<29;break;
14             case 3:
15                 cout <<"March days = "<<31;break;
16             case 4:
17                 cout <<"April days = "<<30;break;
18             case 5:
19                 cout <<"May days = "<<31;break;
20             case 6:
21                 cout <<"June days = "<<30;break;
22             case 7:
23                 cout <<"July days = "<<31;break;
24             case 8:
25                 cout <<"August days = "<<31;break;
26             case 9:
27                 cout <<"September days = "<<30;break;
28             case 10:
29                 cout <<"October days = "<<31;break;
30             case 11:
31                 cout <<"November days = "<<30;break;
32             case 12:
33                 cout <<"December days = "<<31;break;
34             default:
35                 cout <<"Invalid month number";break;}
36      return 0;}
37
```

OUTPUT:

```
"D:\2nd semester\Computer programming lab\lab class 3\QUESTIONS\Q8 NUMBER OF DAYS IN MONTH .exe"
Enter Day number = 5
May days = 31
Process returned 0 (0x0)    execution time
Press any key to continue.
```

Answer #9

CODE:

```
Q9 Electricity bill.cpp - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Start here x Q9 Electricity bill.cpp x
1  #include <iostream>
2  using namespace std;
3
4  int main(){
5  int c_id,unit,charges,surcharge;
6  cout<<"Enter customer ID : ";
7  cin>>c_id;
8  cout<<"Enter the number of units consumed : ";
9  cin>>unit;
10
11  if( unit >= 0 && unit <= 199 ){
12  charges=unit*1.20;}
13
14  else if( unit >= 200 && unit < 400 ){
15  charges=unit*1.50;}
16
17  else if( unit >= 400 && unit < 600 ){
18  charges=unit*1.80;}
19
20  else if( unit > 600 ){
21
22
23  }
24
25  }
26
27  }
28
29  }
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OUTPUT:

"D:\2nd semester\Computer programming lab\lab class 3\QUESTIONS\Q9 Electricity bill.exe"

```
Enter customer ID : 1001
Enter the number of units consumed : 800
Customer IDNO : 1001
Units consumed : 800
Amount Charges : 1600
surcharges Amount :240
Net Amount paid by the customer : 1840

Process returned 0 (0x0)    execution time : 5.291 s
Press any key to continue.
```