

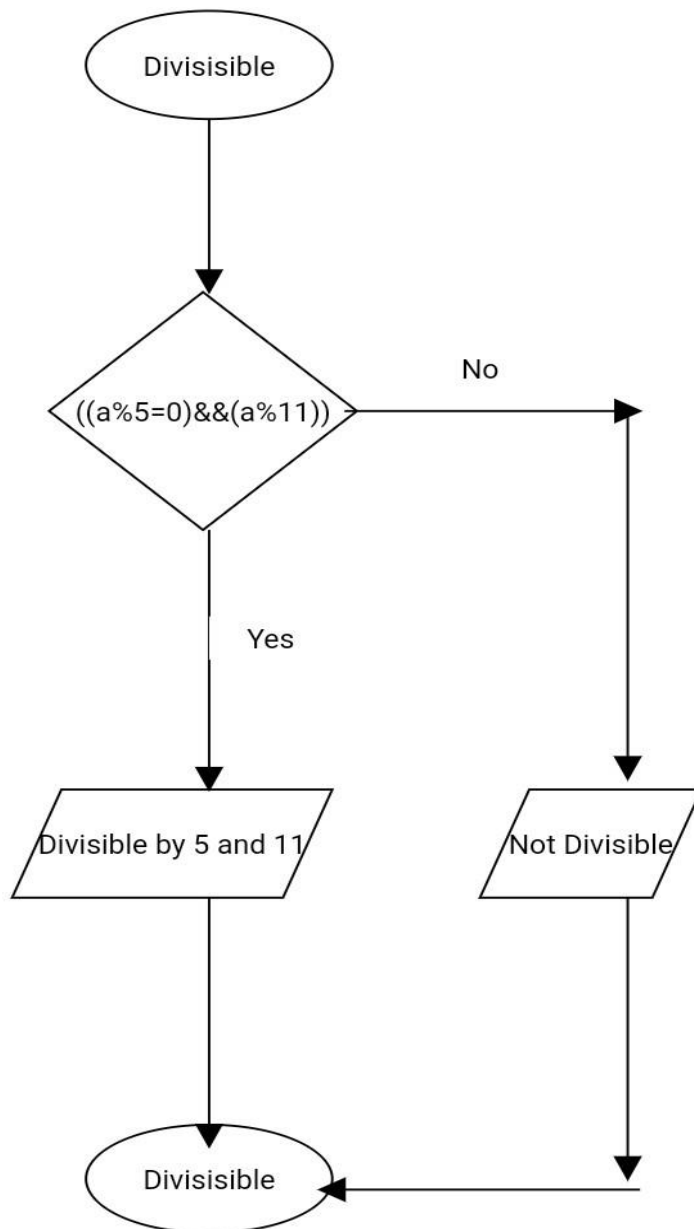


**Problem no 1:**

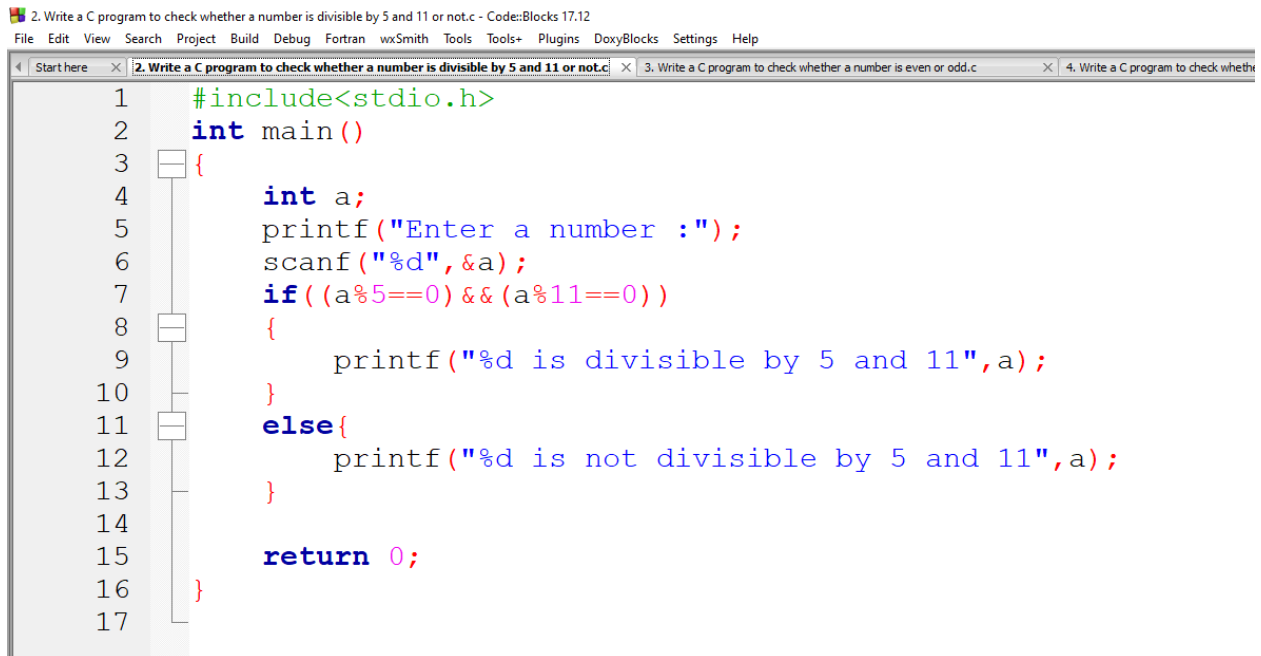
**Title :** Write a C program to check whether a number is divisible by 5 and 11 or not.

**Procedure:**

**Flow chart:**



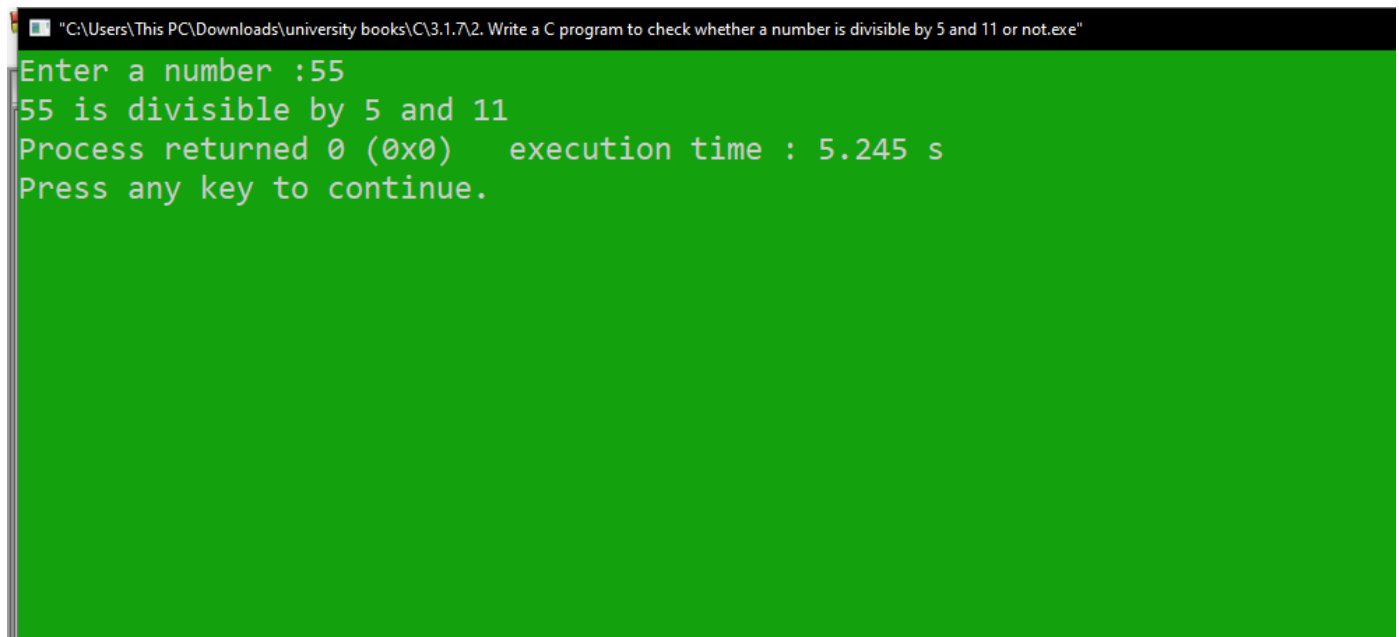
## Code:



The screenshot shows the Code::Blocks IDE with a project named "2. Write a C program to check whether a number is divisible by 5 and 11 or not.c". The code is as follows:

```
1  #include<stdio.h>
2  int main()
3  {
4      int a;
5      printf("Enter a number :");
6      scanf("%d",&a);
7      if ((a%5==0) && (a%11==0))
8      {
9          printf("%d is divisible by 5 and 11",a);
10     }
11     else{
12         printf("%d is not divisible by 5 and 11",a);
13     }
14
15     return 0;
16 }
17
```

## Output:



The screenshot shows a Windows command prompt window with the following output:

```
"C:\Users\This PC\Downloads\university books\C\3.1.7\2. Write a C program to check whether a number is divisible by 5 and 11 or not.exe"
Enter a number :55
55 is divisible by 5 and 11
Process returned 0 (0x0)   execution time : 5.245 s
Press any key to continue.
```

"C:\Users\This PC\Downloads\university books\C\3.1.7\2. Write a C program to check whether a number is divisible by 5 and 11 or not.exe"

Enter a number :44

44 is not divisible by 5 and 11

Process returned 0 (0x0) execution time : 2.327 s

Press any key to continue.

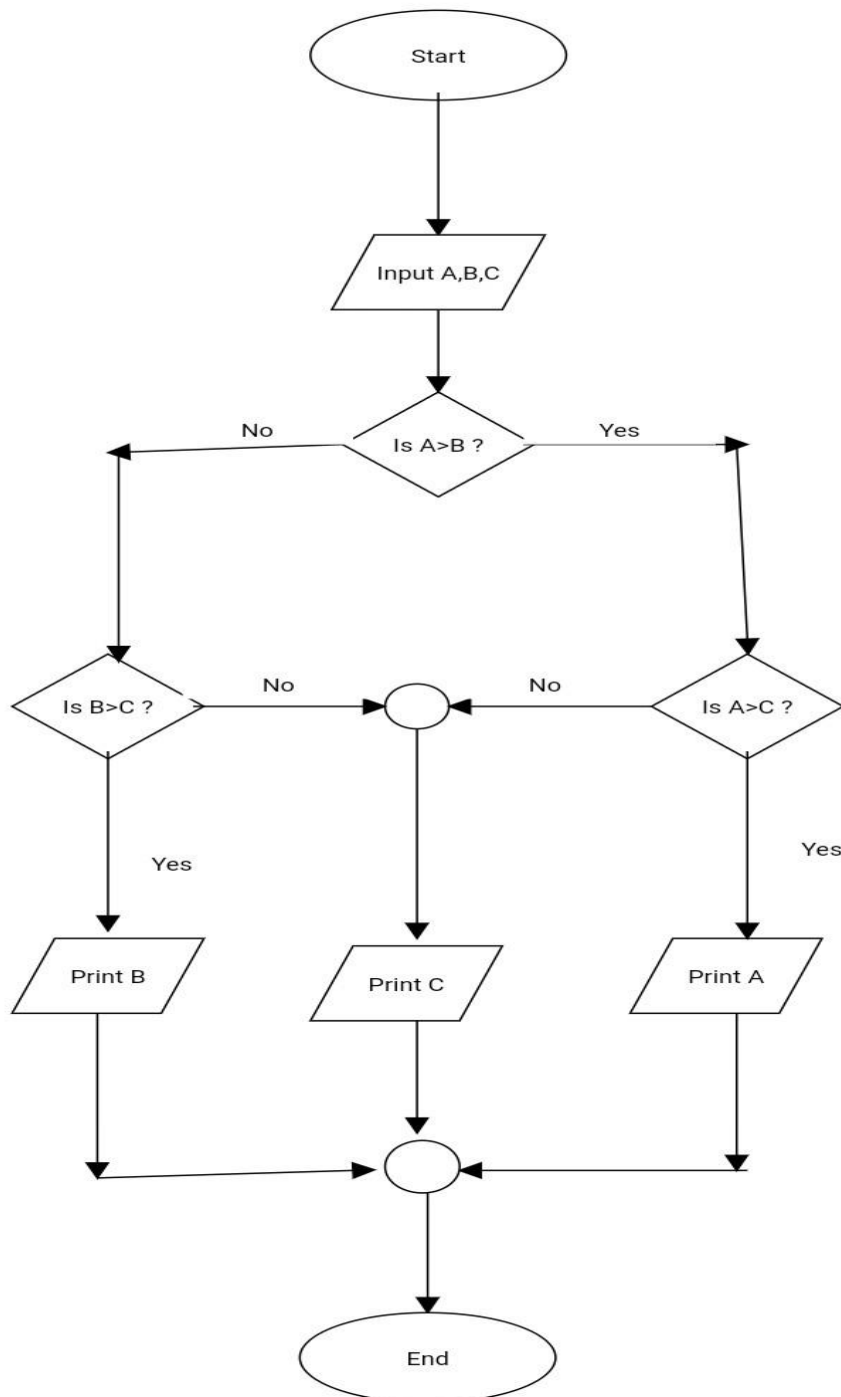


**Problem no 2:**

**Title:** Write a C program to find maximum between three numbers.

**Procedure:**

**Flow chart:**



## Code:

```
2. Write a C program to find maximum between three numbers.c - Code::Blocks 17.12
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

2. Write a C program to find maximum between three numbers.c 3. Write a Program to take the value from the user as input any alphabet and check whether it is vowel or consonant (Using the switch statement).c

1  #include<stdio.h>
2  int main()
3  {
4      int a,b,c;
5      printf("Enter three number to find maximum value number:\n");
6      scanf("\n%d\n%d\n%d",&a,&b,&c);
7      if((b<a) && (c<a))
8      {
9          printf("%d is the maximum:",a);
10     }
11     if((a<b) && (c<b))
12     {
13         printf("%d is the maximum:",b);
14     }
15     if((a<c) && (b<c))
16     {
17         printf("%d is the maximum:",c);
18     }
19     else {
20         printf("\nThere are equal value");
21     }
22     return 0;
23 }
24
25
26
```

## Output:

```
"C:\Users\This PC\Downloads\university books\C\3.1.4\2. Write a C program to find maximum between three numbers.exe"

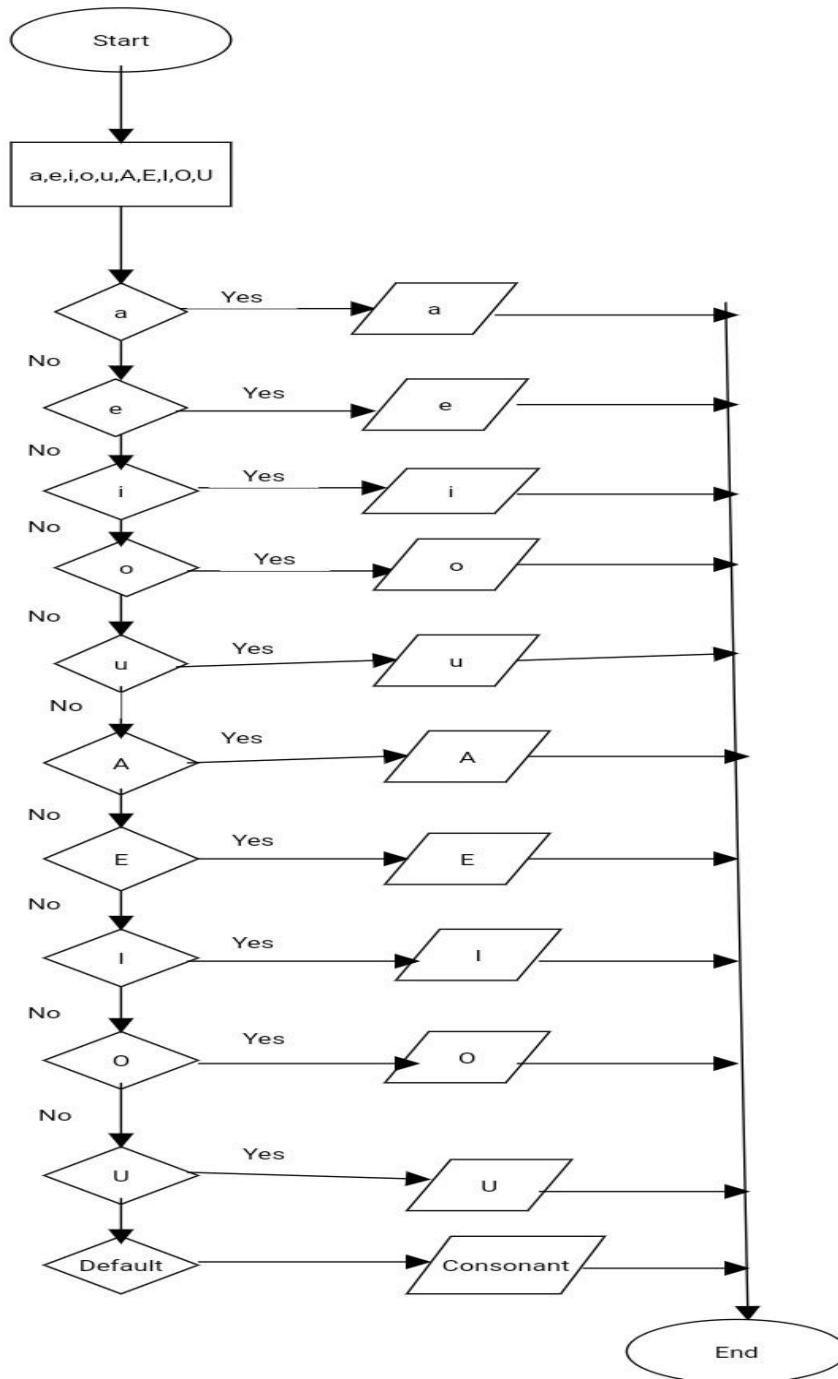
Enter three number to find maximum value number:
9
4
8
9 is the maximum:
There are equal value
Process returned 0 (0x0)   execution time : 5.604 s
Press any key to continue.
```

### Problem:03

**Title:** Write a Program to take the value from the user as input any alphabet and check whether it is vowel or consonant (Using the switch statement).

**Procedure:**

**Flow chart:**



## Code:

3. Write a Program to take the value from the user as input any alphabet and check whether it is vowel or consonant (Using the switch statement).c - Code::Blocks 17.12

```
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
3. Write a Program to take the value from the user as input any alphabet and check whether it is vowel or consonant (Using the switch statement).c x 4. Write a C program to check v

1  #include<stdio.h>
2  int main()
3  {
4      char ch;
5      printf("Enter a alphabet:");
6      scanf("%c",&ch);
7      switch(ch)
8      {
9          case 'a':
10         case 'e':
11         case 'i':
12         case 'o':
13         case 'u':
14         case 'A':
15         case 'E':
16         case 'I':
17         case 'O':
18         case 'U':
19             printf("%c is Vowel",ch);
20             break;
21         default:
22             printf(" consonant");
23     }
24     return 0;
25 }
```

## Output:

```
"C:\Users\This PC\Downloads\university books\C\3.1.4\3. Write a Program to take the value from the user as input any alphabet and check whether it is vowel or consonant (Using the switch state
Enter a alphabet:O
O is Vowel
Process returned 0 (0x0)   execution time : 38.518 s
Press any key to continue.
█
```

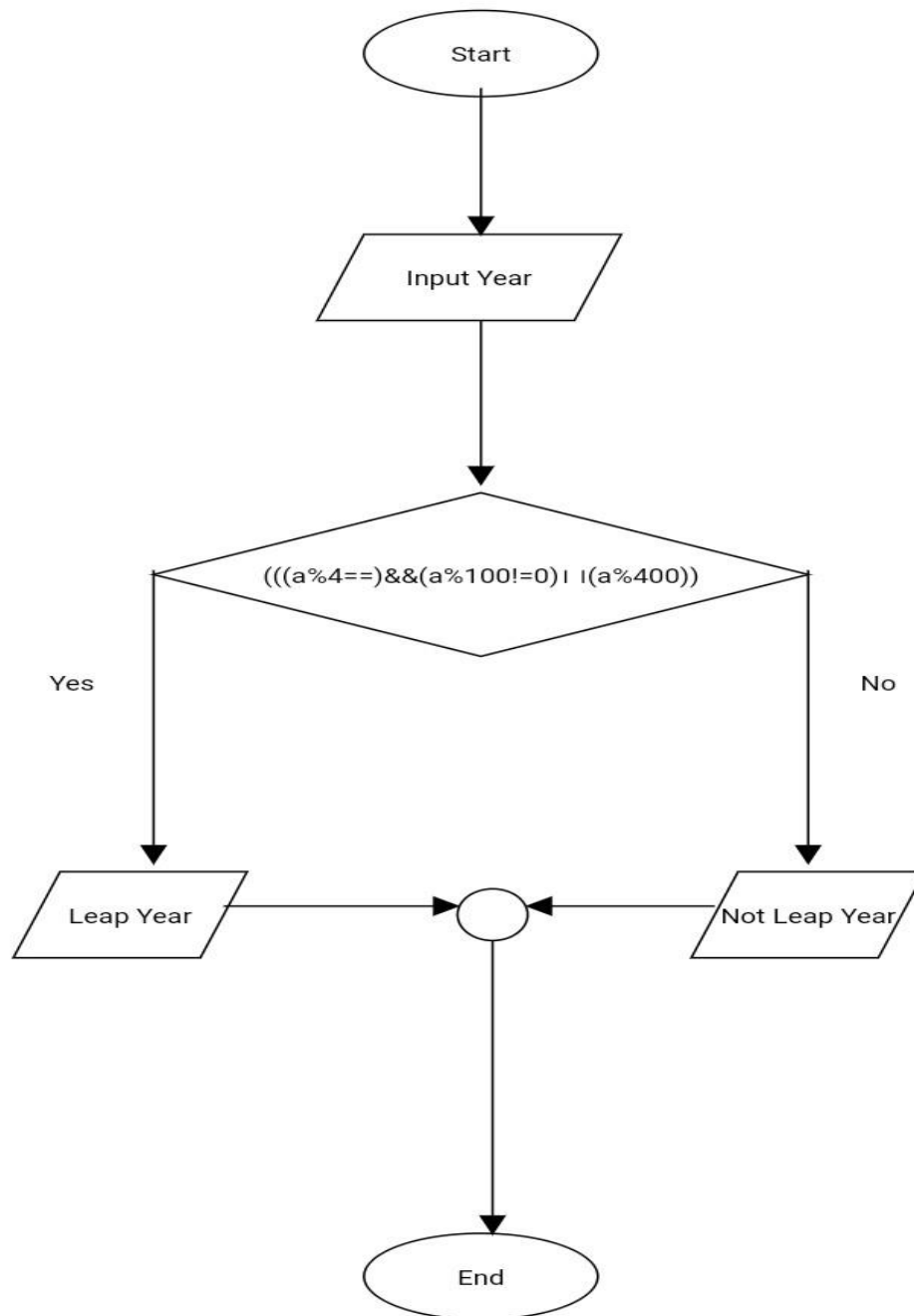


#### Problem:04

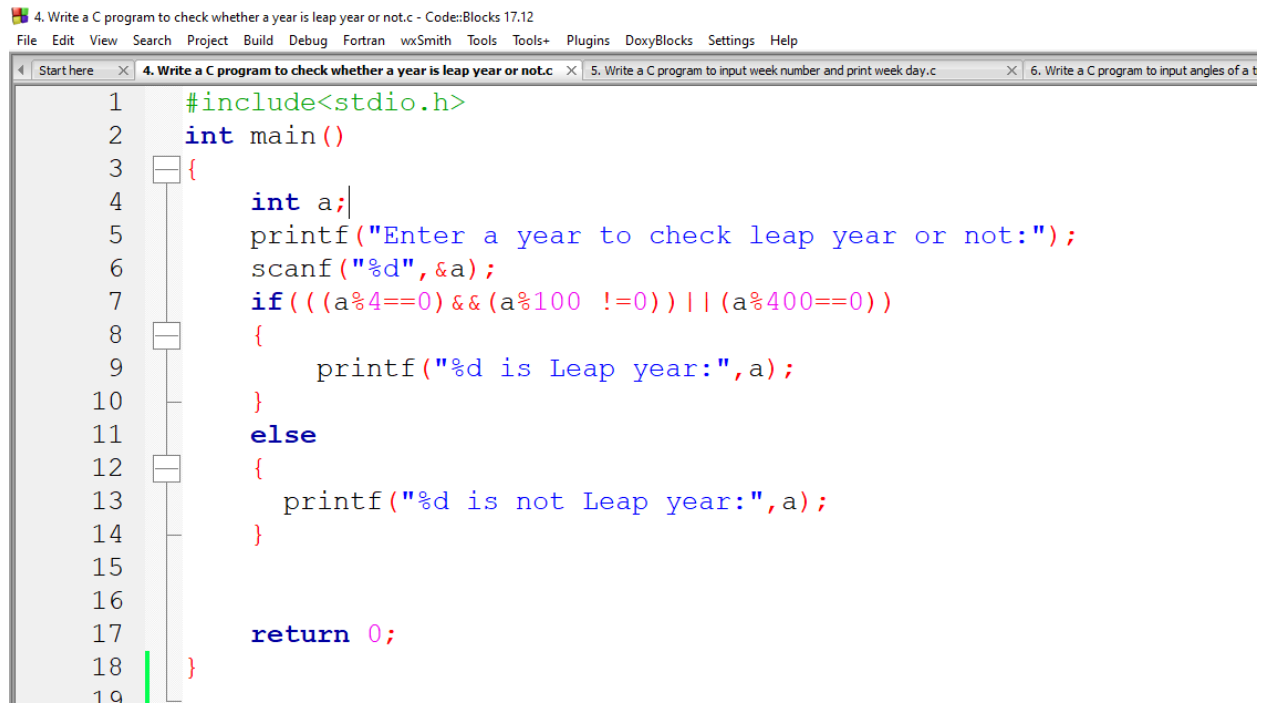
Title: Write a C program to check whether a year is leap year or not.

**Procedure:**

**Flow chart:**



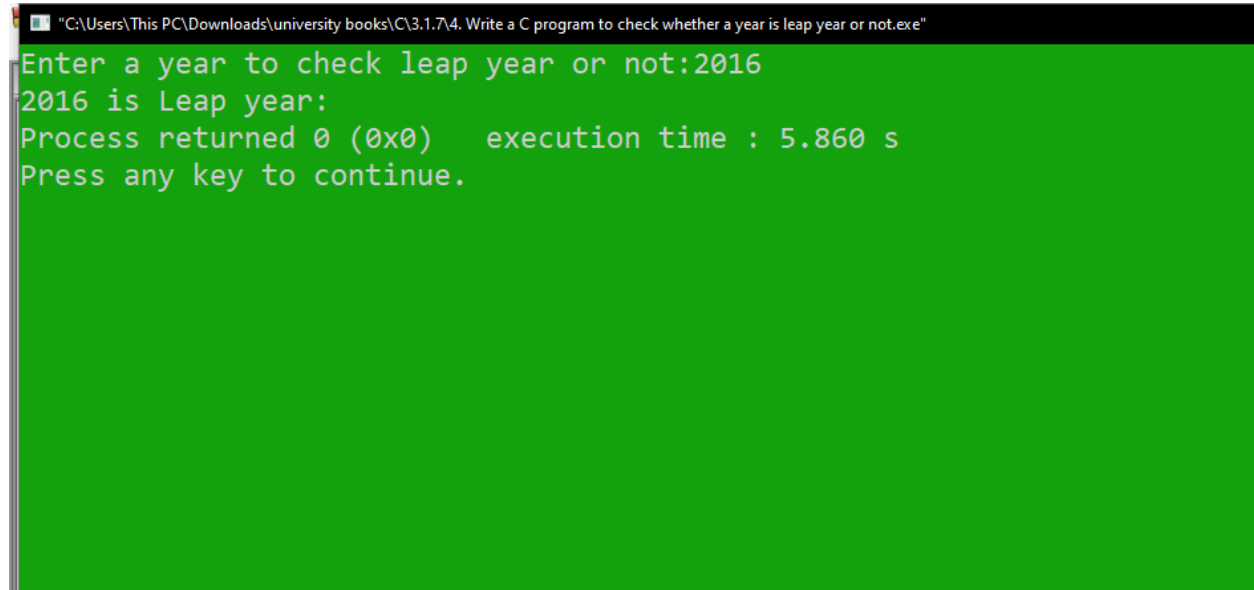
## Code:



The screenshot shows a code editor window with the title "4. Write a C program to check whether a year is leap year or not.c - Code::Blocks 17.12". The menu bar includes File, Edit, View, Search, Project, Build, Debug, Fortran, wxSmith, Tools, Tools+, Plugins, DoxyBlocks, Settings, and Help. The tab bar shows three tabs: "Start here", "4. Write a C program to check whether a year is leap year or not.c", and "5. Write a C program to input week number and print week day.c". The code in the editor is as follows:

```
1  #include<stdio.h>
2  int main()
3  {
4      int a;
5      printf("Enter a year to check leap year or not:");
6      scanf("%d",&a);
7      if(((a%4==0)&&(a%100 !=0)) || (a%400==0))
8      {
9          printf("%d is Leap year:",a);
10     }
11     else
12     {
13         printf("%d is not Leap year:",a);
14     }
15
16
17     return 0;
18 }
19
```

## Output:



The screenshot shows a terminal window with the title "C:\Users\This PC\Downloads\university books\C\3.1.7\4. Write a C program to check whether a year is leap year or not.exe". The output of the program is as follows:

```
Enter a year to check leap year or not:2016
2016 is Leap year:
Process returned 0 (0x0)   execution time : 5.860 s
Press any key to continue.
```

"C:\Users\This PC\Downloads\university books\C\3.1.7\4. Write a C program to check whether a year is leap year or not.exe"

Enter a year to check leap year or not:2015

2015 is not Leap year:

Process returned 0 (0x0) execution time : 5.508 s

Press any key to continue.