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Write a program that takes an integer N as input and determines whether it is divisible by both 5 and 7.

Program In C

```
#include <stdio.h>
int main() {
   int N;

   // Getting input from the user
   printf("Enter an integer: ");
   scanf("%d", &N);

   // Checking if N is divisible by both 5 and 7
   if (N % 5 == 0 && N % 7 == 0) {
      printf("%d is divisible by both 5 and 7.\n", N);
   } else {
      printf("%d is not divisible by both 5 and 7.\n", N);
   }

   return 0;
```

}

Explanation:

- 1. The program begins by including the necessary header file stdio.h, which provides input/output functions like printf and scanf.
- 2. In the main function, we declare the variable N to store the input integer.
- 3. The printf function is used to prompt the user to enter an integer.
- 4. The scanf function is used to read the integer entered by the user and store it in the variable N.
- 5. We then use an if statement to check if the integer N is divisible by both 5 and 7. This is done by checking if the remainder of dividing N by 5 is 0 (N % 5 == 0) and the remainder of dividing N by 7 is also 0 (N % 7 == 0).
- 6. If N is divisible by both 5 and 7, we print that it is divisible by both 5 and 7 using the printf function.
- 7. If N is not divisible by both 5 and 7, we print that it is not divisible by both 5 and 7 using the printf function.
- 8. Finally, we return 0 to indicate successful execution of the program.

Output:



Enter an integer: 70 70 is divisible by both 5 and 7.

Program In Java

```
Java
  import java.util.Scanner;
  public class DivisibilityChecker {
      public static void main(String[] args) {
          int N:
          Scanner scanner = new Scanner(System.in);
          System.out.print("Enter an integer: ");
          N = scanner.nextInt();
          if (N % 5 == 0 \&\& N % 7 == 0) {
              System.out.println(N + " is divisible by both 5 and 7.");
          } else {
              System.out.println(N + " is not divisible by both 5 and
  7.");
          }
          scanner.close();
      }
  }
```

Explanation:

- 1. In this Java code, the Scanner class is used to read input from the user.
- 2. The program starts by importing the necessary classes, including Scanner.
- 3. The DivisibilityChecker class is defined, which contains the main method where the program execution begins.
- 4. Inside the main method, an integer variable N is declared to store the integer entered by the user.
- 5. A Scanner object named scanner is created to read input from the user.
- 6. The program prompts the user to enter an integer using the System.out.print() method.
- 7. The nextInt() method of the Scanner class is used to read the integer value entered by the user and assign it to the N variable.
- 8. The program then checks if the integer N is divisible by both 5 and 7 using the if statement:
 - If N is divisible by both 5 and 7 (i.e., the remainders of N divided by 5 and 7 are both 0), the program prints that N is divisible by both 5 and 7 using the System.out.println() method.
 - If N is not divisible by both 5 and 7, the program prints that N is not divisible by both 5 and 7.
- 9. Finally, the scanner.close() method is called to release any resources associated with the Scanner object and close the input stream.



Enter an integer: 40

40 is not divisible by both 5 and 7.

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