Data Structures and Algorithms - Answer Sheet

Answer to: Write a Python program to check whether a number is a prime number

Explanation:

This Python program prompts the user to enter a number and checks whether it is a prime number.

A prime number is a number that has only two factors: 1 and itself.

The code is meant to handle edge cases and check for divisibility.

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Python Program Code:
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# Python program to check if a number is a prime number
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num = int(input("Enter a number"))

if num < 2
    print(num, "is not a prime number.")

else
    for i in range(2, int(num**0.5) + 1)
        if num % i = 0:
            print(num, "is not a prime number.")
            break
    else:
        print(num, "is a prime number.")</pre>
```