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def
odd_number_multiply_by_3_add_1(n):
    """
    Checks if the input number is odd, and if
so, multiplies it by 3 and adds 1.

    Args:
        n (int): The input number.

    Returns:
        int: The result of the operation if the
number is odd, otherwise the original
number.
    """
    if n % 2 != 0:  # Check if the number is
odd
        result = n * 3 + 1
        print(f"{n} is an odd number.
Multiplying it by 3 and adding 1 gives
{result}")
        return result
    else:
```

```
        print(f"{n} is an even number. No
operation performed.")
        return n

# Get user input
def get_user_input():
    while True:
        try:
            n = int(input("Enter an integer: "))
            return n
        except ValueError:
            print("Invalid input. Please enter an
integer.")

# Main program
def main():
    print("Odd Number Multiply by 3 and
Add 1")

print("----------------------------------
----")
    n = get_user_input()
    result =
```

```
odd_number_multiply_by_3_add_1(n)
    print(f"Final result: {result}")

# Run the main program
if __name__ == "__main__":
    main()
```