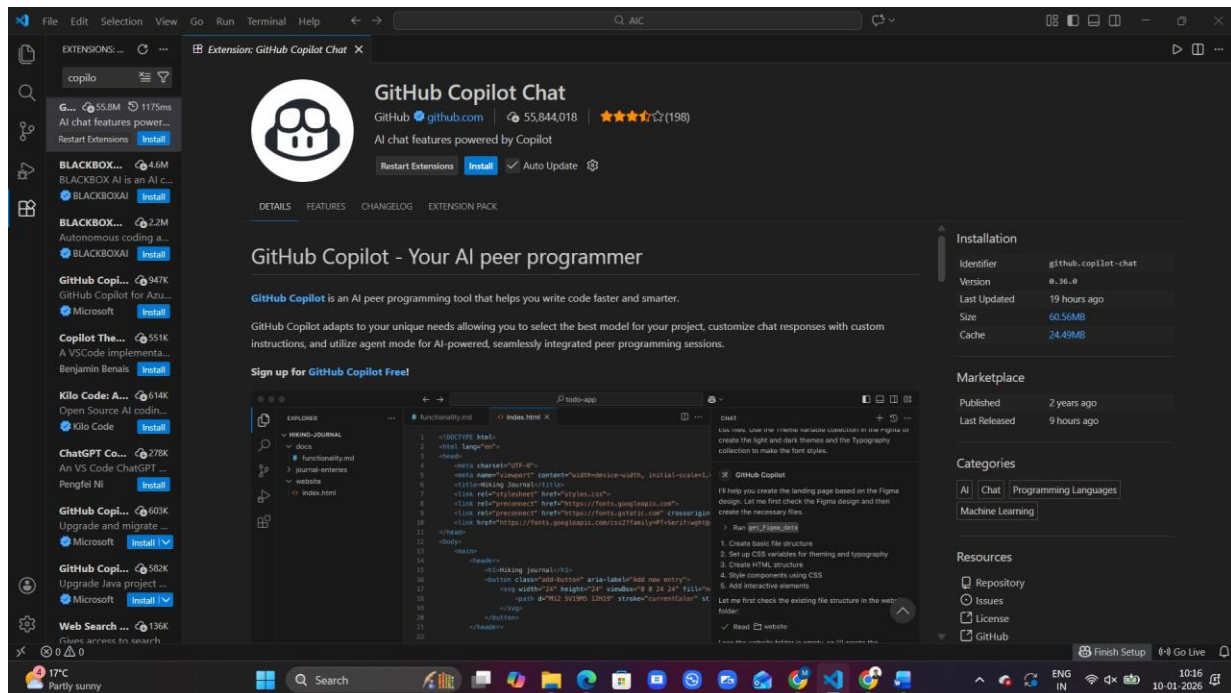


## LAB 1.2 -

### Environment Setup – GitHub Copilot and VS Code Integration + Understanding AI-assisted Coding Workflow



❖ Set up GitHub Copilot in VS Code successfully.

```

DEMO.PY
1  #Reverse a string in python
2  def reverse_string(s):
3      |   return s[::-1]
4  #Example usage
5  input_string = "Hello, World!"
6  reversed_string = reverse_string(input_string)
7  print("Original String:", input_string)
8  print("Reversed String:", reversed_string)
9  # Output:
10 # Original String: Hello, World!
11 # Reversed String: !dlrow ,olleH

```

❖ Use inline comments and context to generate code with Copilot.

❖ Evaluate AI-generated code for correctness and readability.

```

#optimise the code
def reverse_string(s):
    |   return ''.join(reversed(s))
#Example usage
input_string = "Hello, World!"
reversed_string = reverse_string(input_string)
print("Original String:", input_string)
print("Reversed String:", reversed_string)
# Output:
# Original String: Hello, World!
# Reversed String: !dlrow ,olleH
#Optimized version using reversed() function
# The optimized version uses the built-in reversed() function which can be more efficient for larger strings.
# The optimized version uses the built-in reversed() function which can be more efficient for larger strings.

```

❖ Compare code suggestions based on different prompts and programming styles.