

```

def fast_copy(source, count):
    # Allocate destination
    dest = [None] * count

    i = 0

    # Number of elements not fitting into a full group of 8
    remainder = count % 8

    # ---- Partial group handling (explicit control flow, no loop) ----
    # Structured so execution "enters" at the correct point and
    # proceeds sequentially.
    if remainder >= 1:
        dest[i] = source[i]
        i += 1
    if remainder >= 2:
        dest[i] = source[i]
        i += 1
    if remainder >= 3:
        dest[i] = source[i]
        i += 1
    if remainder >= 4:
        dest[i] = source[i]
        i += 1
    if remainder >= 5:
        dest[i] = source[i]
        i += 1
    if remainder >= 6:
        dest[i] = source[i]
        i += 1
    if remainder >= 7:
        dest[i] = source[i]
        i += 1

    # ---- Main transfer loop: exactly 8 assignments per iteration ----
    groups = count // 8
    while groups > 0:
        dest[i] = source[i]
        dest[i + 1] = source[i + 1]
        dest[i + 2] = source[i + 2]
        dest[i + 3] = source[i + 3]
        dest[i + 4] = source[i + 4]

```

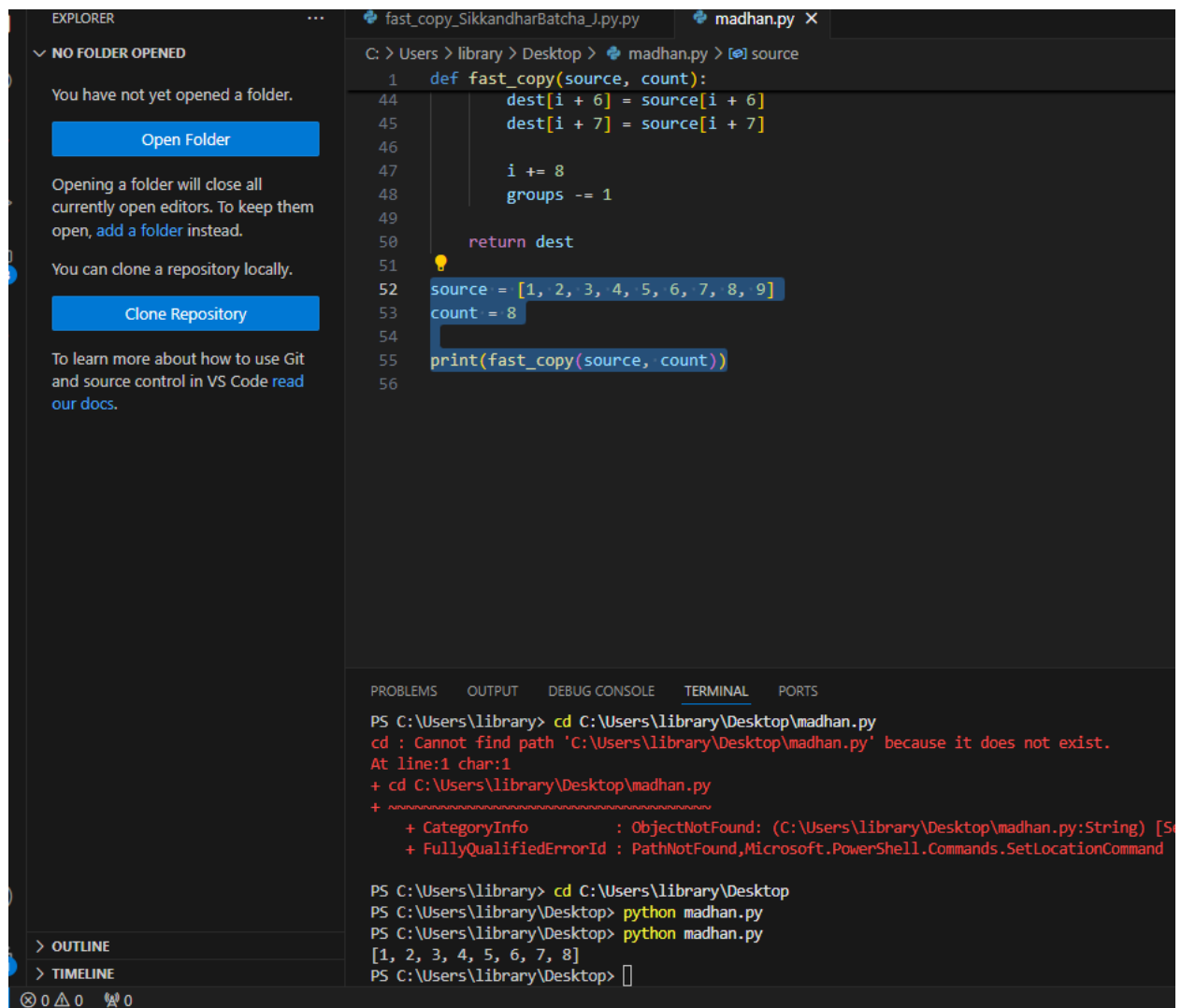
```
dest[i + 5] = source[i + 5]
dest[i + 6] = source[i + 6]
dest[i + 7] = source[i + 7]
```

```
i += 8
groups -= 1
```

```
return dest
```

```
source = [1, 2, 3, 4, 5, 6, 7, 8, 9]
count = 8
```

```
print(fast_copy(source, count))
```



The screenshot shows the Visual Studio Code interface. The Explorer panel on the left indicates 'NO FOLDER OPENED' with buttons for 'Open Folder' and 'Clone Repository'. The main editor area displays a file named 'madhan.py' with the following Python code:

```
1 def fast_copy(source, count):
44     dest[i + 6] = source[i + 6]
45     dest[i + 7] = source[i + 7]
46
47     i += 8
48     groups -= 1
49
50     return dest
51
52 source = [1, 2, 3, 4, 5, 6, 7, 8, 9]
53 count = 8
54
55 print(fast_copy(source, count))
56
```

The bottom panel shows the 'TERMINAL' tab with the following PowerShell commands and output:

```
PS C:\Users\library> cd C:\Users\library\Desktop\madhan.py
cd : Cannot find path 'C:\Users\library\Desktop\madhan.py' because it does not exist.
At line:1 char:1
+ cd C:\Users\library\Desktop\madhan.py
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (C:\Users\library\Desktop\madhan.py:String) [Set-Location]
+ FullyQualifiedErrorId : PathNotFound,Microsoft.PowerShell.Commands.SetLocationCommand

PS C:\Users\library> cd C:\Users\library\Desktop
PS C:\Users\library\Desktop> python madhan.py
PS C:\Users\library\Desktop> python madhan.py
[1, 2, 3, 4, 5, 6, 7, 8]
PS C:\Users\library\Desktop>
```