

```
# Program to add two matrices using nested loop
```

```
X = [[12,7,3],
```

```
     [4 ,5,6],
```

```
     [7 ,8,9]]
```

```
Y = [[5,8,1],
```

```
     [6,7,3],
```

```
     [4,5,9]]
```

```
result = [[0,0,0],
```

```
          [0,0,0],
```

```
          [0,0,0]]
```

```
# iterate through rows
```

```
for i in range(len(X)): #for set up of elements
```

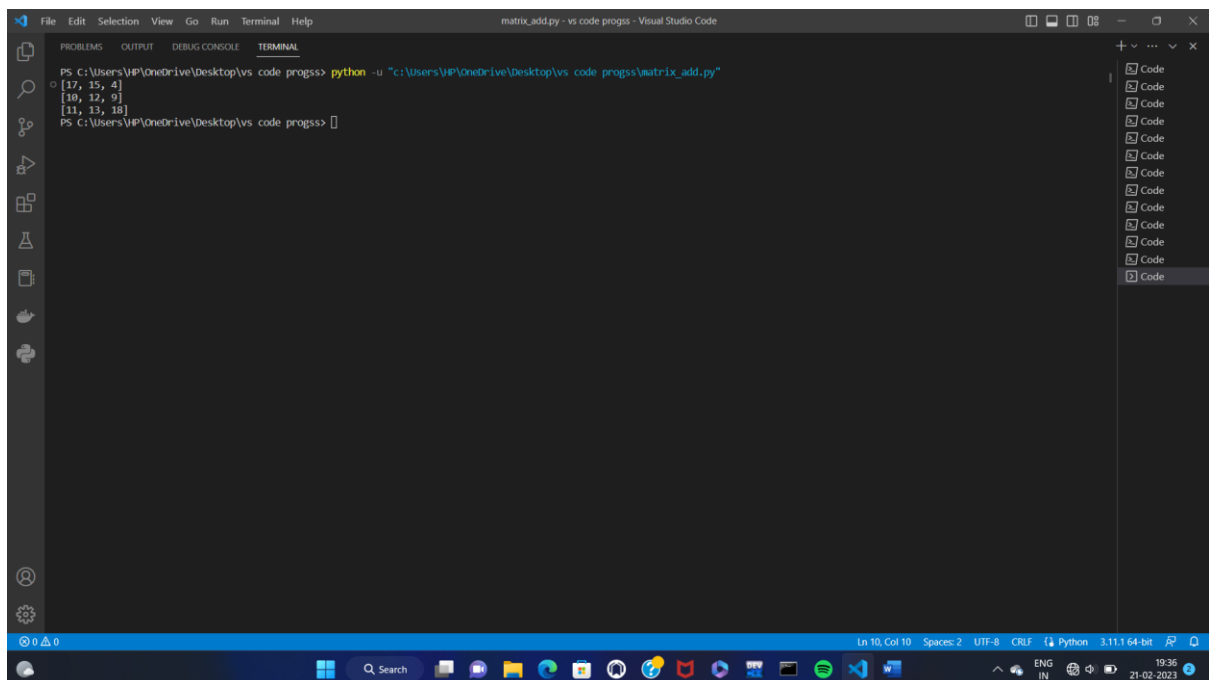
```
    # iterate through columns
```

```
    for j in range(len(X[0])): #for calculation
```

```
        result[i][j] = X[i][j] + Y[i][j]
```

```
for r in result: #to print result
```

```
    print(r)
```



The screenshot shows the Visual Studio Code interface with a terminal window open. The terminal displays the output of a Python script that adds two matrices. The output is as follows:

```
PS C:\Users\HP\OneDrive\Desktop\vs code progss> python -u "c:\Users\HP\OneDrive\Desktop\vs code progss\matrix_add.py"
[17, 15, 4]
[10, 12, 9]
[11, 13, 18]
PS C:\Users\HP\OneDrive\Desktop\vs code progss>
```

The terminal window is titled "matrix_add.py - vs code progss - Visual Studio Code". The status bar at the bottom indicates the file is "Ln 10, Col 10", the encoding is "UTF-8", the line ending is "CRLF", the interpreter is "Python 3.11.1 64-bit", and the time is 19:36 on 21-02-2023.