Karnish N
24/07/2025

1. Write a python program which defines a function to find maximum of 3 numbers. Read the numbers as input and pass as argument to the function.

CODING:

```
def find_maximum(a, b, c):
    if a >= b and a >= c:
        return a
    elif b >= a and b >= c:
        return b
    else:
        return c
num1 = float(input("Enter first number: "))
num2 = float(input("Enter second number: "))
num3 = float(input("Enter third number: "))
maximum = find_maximum(num1, num2, num3)
print("The maximum number is:", maximum)
```

OUTPUT:

```
PS C:\Users\karnish.n\Desktop\Day 14> python -u "c:\Users\karnish.n\Desktop\Day 14\task 1.py"
Enter first number: 32
Enter second number: 32
Enter third number: 45
The maximum number is: 45.0
```

2.Write a python program to read string as input and check whether it is a palindrome.

CODING:

```
def is_palindrome(s):

    s = s.lower()

    s = s.replace(" ", "")

    return s == s[::-1]


input_str = input("Enter a string: ")
```

```
if is_palindrome(input_str):
    print(f'"{input_str}" is a palindrome.')
else:
    print(f'"{input_str}" is not a palindrome.')
```

OUTPUT:

```
PS C:\Users\karnish.n\Desktop\Day 14> python -u "c:\Users\karnish.n\Desktop\Day 14\task 2.py"
Enter a string: madam
"madam" is a palindrome.
```

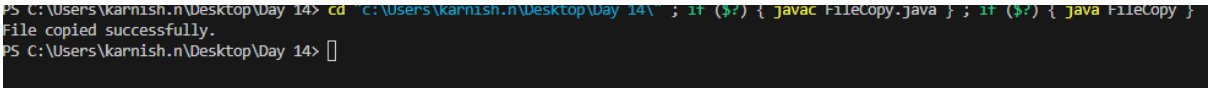
3.Write a Java program which performs file copy.

CODING:

```
  import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.IOException;

public class FileCopy {
    public static void main(String[] args) {
        String sourcePath = "sourceFile.txt";
        String destinationPath = "destFile.txt";

        FileInputStream inputStream = null;
        FileOutputStream outputStream = null;

        try {
            inputStream = new FileInputStream(sourcePath);
            outputStream = new FileOutputStream(destinationPath);

            int byteData;
            while ((byteData = inputStream.read()) != -1) {
                outputStream.write(byteData);
            }

            System.out.println("File copied successfully.");
        } catch (IOException e) {
            System.out.println("Error during file copy: " +
e.getMessage());
```

```
        } finally {
            try {
                if (inputStream != null) inputStream.close();
                if (outputStream != null) outputStream.close();
            } catch (IOException e) {
                System.out.println("Error closing files: " +
e.getMessage());
            }
        }
    }
}
```

OUTPUT:



4.Write a python program to find the number of lines, words and characters in a file.

CODING:

```
def count_file_stats(filename):
    lines = 0
    words = 0
    characters = 0

    try:
        with open(filename, 'r') as file:
            for line in file:
                lines += 1
                words += len(line.split())
                characters += len(line)
        return lines, words, characters
    except FileNotFoundError:
        print(f"File '{filename}' not found.")
        return None

file_name = input("Enter the filename: ")
result = count_file_stats(file_name)

if result:
    lines, words, characters = result
```

```
    print(f"Lines: {lines}")
    print(f"Words: {words}")
    print(f"Characters: {characters}")
```

OUTPUT:

```
PS C:\Users\karnish.n\Desktop\Day 14> python -u "c:\Users\karnish.n\Desktop\Day 14\task 3.py"
Enter the filename: sample.txt
Lines: 1
Words: 2
Characters: 14
PS C:\Users\karnish.n\Desktop\Day 14>
```