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DAY 14 ASSESSMENT

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.

CODE:

```
def find_maximum(a, b, c):
    return max(a, b, c)


num1 = int(input("Enter first number: "))
num2 = int(input("Enter second number: "))
num3 = int(input("Enter third number: "))


maximum = find_maximum(num1, num2, num3)
print("The maximum of the three numbers is:", maximum)
```

OUTPUT:

```
================ RESTART: C:/Users/pavithra.r/Downloads/trial.py ========
Enter first number: 8
Enter second number: 7
Enter third number: 10
The maximum of the three numbers is: 10
```

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

CODE:

```
def is_palindrome(s):
    s = s.replace(" ", "").lower()
    return s == s[::-1]
```

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


if is_palindrome(user_input):
    print("The string is a palindrome.")
else:
    print("The string is not a palindrome.")
```

OUTPUT:

```
================ RESTART: C:/Users/pavithra.r/Downloads/trial.py ========
Enter a string: Malayalam
The string is a palindrome.

================ RESTART: C:/Users/pavithra.r/Downloads/trial.py ========
Enter a string: Morning
The string is not a palindrome.
```

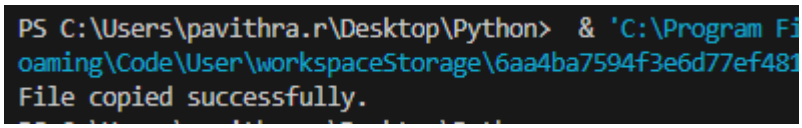
3)Write a Java program which performs file copy

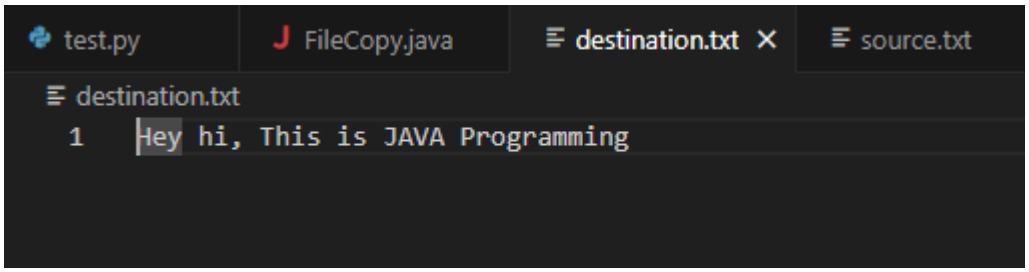
CODE:

```
import java.io.*;


public class FileCopy {
    public static void main(String[] args) {
        String sourceFile = "source.txt";
        String destinationFile = "destination.txt";


        try {
            FileInputStream inputStream = new FileInputStream(sourceFile);
            FileOutputStream outputStream = new FileOutputStream(destinationFile);


            byte[] buffer = new byte[1024];
            int bytesRead;
```

```
            while ((bytesRead = inputStream.read(buffer)) != -1) {
                outputStream.write(buffer, 0, bytesRead);
            }

            inputStream.close();
            outputStream.close();

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

OUTPUT:





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

CODE:

```
def count_file_contents(filename):
    try:
        with open(filename, 'r') as file:
            lines = file.readlines()
```

```
        line_count = len(lines)
        word_count = sum(len(line.split()) for line in lines)
        char_count = sum(len(line) for line in lines)

        print("File Statistics:")
        print("Number of lines:", line_count)
        print("Number of words:", word_count)
        print("Number of characters:", char_count)

    except FileNotFoundError:
        print("Error: File not found.")

filename = input("Enter the filename (with extension): ")
count_file_contents(filename)
```

OUTPUT: