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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):


    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\lokeshviswa.m\Desktop\Python> python -u "c:\Users\lokeshviswa.m\Desktop\Python\max.py"
PS C:\Users\lokeshviswa.m\Desktop\Python> python -u "c:\Users\lokeshviswa.m\Desktop\Python\max.py"
 Enter first number: 10
Enter second number: 25
Enter third number: 20
The maximum number is:  20.0
PS C:\Users\lokeshviswa.m\Desktop\Python>
```

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

CODE:

```
def is_palindrome(text):

    text = text.lower()

    text = text.replace(" ", "")

    return text == text[::-1]



user_input = input("Enter a string: ")



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

OUTPUT:

```
The maximum number is:  20.0
PS C:\Users\lokeshviswa.m\Desktop\Python> python -u "c:\Users\lokeshviswa.m\Desktop\Python\palindrome.py"
Enter a string: madam
'madam' is a palindrome.
PS C:\Users\lokeshviswa.m\Desktop\Python>
```

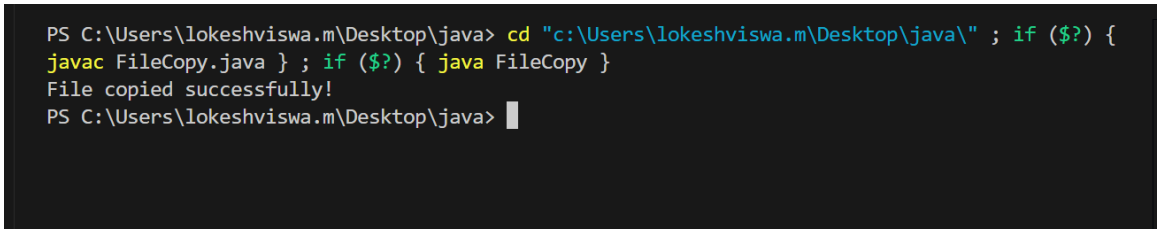
3.Write a Java program which performs file copy.

CODE:

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

public class FileCopy {
    public static void main(String[] args) {

        String sourceFile = "source.txt";
        String destinationFile = "dest.txt";

        try {
            FileInputStream input = new FileInputStream(sourceFile);
            FileOutputStream output = new FileOutputStream(destinationFile);

            int byteData;

            while ((byteData = input.read()) != -1) {
                output.write(byteData);
            }

            input.close();
            output.close();

            System.out.println("File copied successfully!");
```

```
        } catch (IOException e) {
            System.out.println("An error occurred: " + 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 = 0
            char_count = 0

            for line in lines:
                word_count += len(line.split())
                char_count += len(line)
```

```
            print(f"Number of lines: {line_count}")
            print(f"Number of words: {word_count}")
            print(f"Number of characters: {char_count}")

    except FileNotFoundError:
        print("File not found. Please check the filename and try again.")


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

OUTPUT: