

Day 12

Dharunya

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.

```
def find_maximum(a, b, c):  
    return max(a, b, c)  
num1 = int(input("Enter num1: "))  
num2 = int(input("Enter num2: "))  
num3 = int(input("Enter num3: "))  
maximum = find_maximum(num1, num2, num3)  
print(f"max num: {maximum}")
```

Output:

```
python max.py  
Enter num1: 10  
Enter num2: 20  
Enter num3: 90  
max num: 90
```

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

```
text = input("Enter a text: ")  
if text == text[::-1]:  
    print("The text is a palindrome.")  
else:  
    print("The text is not a palindrome.")
```

Output:

```
python pali.py  
Enter a text: madam  
The text is a palindrome.
```

3. Write a Java program which performs file copy.

```
package com.training.ooc;  
import java.io.*;  
public class FileCopy {  
    public static void main(String[] args) {  
        File inputFile = new  
File("C:\\Users\\dharunya.s\\eclipse-workspace\\demo\\src\\com\\training\\ooc\\source.txt");  
        File outputFile = new File("destination.txt");  
        try (  
            FileReader in = new FileReader(inputFile);  
            FileWriter out = new FileWriter(outputFile)  
        ) {  
            int c;  

```

```

        while ((c = in.read()) != -1) {
            out.write(c);
        }
        System.out.println("File copied successfully.");
    } catch (IOException e) {
        System.out.println("Error during file copy: " + e.getMessage());
    }
}
}

```

Source.txt

this is source file

Destination.txt

this is source file

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

```

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

    num_lines = len(lines)
    num_words = sum(len(line.split()) for line in lines)
    num_chars = sum(len(line) for line in lines)

    print(f"Lines: {num_lines}")
    print(f"Words: {num_words}")
    print(f"Characters: {num_chars}")

```

```

filename = "sample.txt"
count_file_details(filename)

```

Sample.txt

hello world

Output:

python file.py

Lines: 1

Words: 2

Characters: 12