JAVA 11 PROGRAMS

1.program

```
public class SimpleInterest
{
	public static void main(String[] args)
	{
		var Principal=10000;
		var Rate=6;
		var Time=3;
		CalculateSI obj = (var a,var b,var c) -> (a*b*c)/100;
		System.out.println(obj.sI(Principal, Rate, Time));
	}
}

interface CalculateSI
{
	double sI(double P,double R,double T);
}
```

2.Program

3.program

```
import java.util.Arrays;
import java.util.List;

public class ArrayList
{
public static void main(String[] args)
{
List<String> str = Arrays.asList("A","quick","brown","fox","jumps","over","the","lazy","dog.");
System.out.println(str);
str.toArray();
```

```
str.forEach(l -> System.out.print(l + " "));
}
}
```

4.Program

```
import java.io.IOException;
import java.nio.file.Files;
import java.nio.file.Path;
import java.util.List;
import java.util.stream.Collectors;

public class Student
{
public static void main(String[] args) throws IOException
{
var path = "C:\\Users\\MBALKRIS\\Downloads\\Java11Assignments_StudentList.txt";
                        List<String> str = Files.readAllLines(Path.of(path));
                        long count =   str.stream().filter(l -> !(l.isBlank())).count();
                        System.out.println(str.stream().filter(l -> !(l.isBlank())).map(l-> l.strip())
                                        .collect(Collectors.toList()) + "\nThere are " +count + "
Students");
}
}
```

5.Program

```
import java.io.IOException;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.StandardOpenOption;
import java.util.Scanner;

public class PriceDisplay
```

```
{
public static void main(String[] args)
{
                        var path1="C:\\Users\\MBALKRIS\\Downloads\\File1.txt";
                        var path2="C:\\Users\\MBALKRIS\\Downloads\\File2.txt";
                        int ch,price,totalPrice=0;
                        boolean isTrue=true;
                        Scanner sc=new Scanner(System.in);
                        Boolean selected = true;
                        while(isTrue) {
                                System.out.println("Enter Option (1.Insert new ,2.view purchase
total ,3.Exit)");
                                ch=sc.nextInt();

                                if(ch == 1) {
                                        int yN;
                                        while (selected) {

                                        try {
                                                System.out.println("Insert price :");
                                                price=sc.nextInt();

        Files.writeString(Path.of(path1),Integer.toString(price)+"\n", StandardOpenOption.APPEND);
                                                totalPrice +=price;

        Files.writeString(Path.of(path2),Integer.toString(totalPrice)+"\n",
StandardOpenOption.CREATE);

                                        }catch(IOException e){
                                                e.printStackTrace();
                                        }
                                        System.out.println("Do you want to enter price for more
item press 1 to for menu and 0 to exit");
```

```
                    yN = sc.nextInt();
                    sc.nextLine();
                    if (yN == 0) {
                        selected = false;
                    }
                    }
                }else if (ch==2) {
                    try {
                        String data=Files.readString(Path.of(path2));
                        System.out.println(data);

                    }catch(IOException e){
                        e.printStackTrace();
                    }
                }else if (ch == 3) {
                    System.out.println("Exit...");
                    isTrue=false;
                    break;
                }

            }

        }
}
```

6.Program

```
import java.io.IOException;
import java.net.URI;
import java.net.http.HttpClient;
import java.net.http.HttpRequest;
import java.net.http.HttpResponse;
```

```
public class HttpClientAPI
{
public static void main(String[] args) throws IOException, InterruptedException
{
                                String url = "http://httpbin.org/get";
                            var request = HttpRequest.newBuilder()
                               .uri(URI.create(url))
                               .GET()
                               .build();
                            var client = HttpClient.newHttpClient();
                            HttpResponse<String> response = client.send(request,
HttpResponse.BodyHandlers.ofString());
                            System.out.println("Status Code: " + response.statusCode());
                            System.out.println("Response: " + response.body());
}
}
```