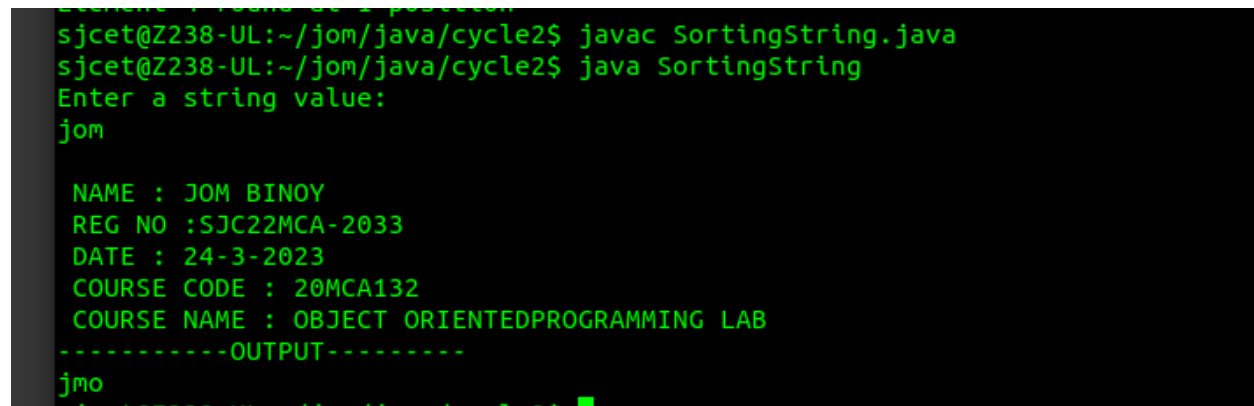


1. Program to Sort strings

Code :

```
import java.util.Arrays;
import java.util.Scanner;
class SortingString {
    public static void main(String args[]) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter a string value: ");
        String str = sc.nextLine();
        char charArray[] = str.toCharArray();
        Arrays.sort(charArray);
        System.out.println("\n NAME : JOM BINOY \n REG NO :SJC22MCA-2033 \n DATE : 24-3-2023 \n
        COURSE CODE : 20MCA132\n COURSE NAME : OBJECT ORIENTEDPROGRAMMING LAB");
        System.out.println("-----OUTPUT-----");
        System.out.println(new String(charArray));
    }
}
```

output:



```
sjcet@Z238-UL:~/jom/java/cycle2$ javac SortingString.java
sjcet@Z238-UL:~/jom/java/cycle2$ java SortingString
Enter a string value:
jom

NAME : JOM BINOY
REG NO :SJC22MCA-2033
DATE : 24-3-2023
COURSE CODE : 20MCA132
COURSE NAME : OBJECT ORIENTEDPROGRAMMING LAB
-----OUTPUT-----
jmo
```

2. Search an element in an array.

Code:

```
import java.util.*;

class arr2
{
    public static void main(String args[])
    {
        Scanner sc = new Scanner(System.in);
        int i,n,search,flag=0;
        System.out.println("\n NAME : JOM BINOY \n REG NO :SJC22MCA-2033 \n DATE : 24-3-2023 \n
        COURSE CODE : 20MCA132\n COURSE NAME : OBJECT ORIENTEDPROGRAMMING LAB");
        System.out.println("-----OUTPUT-----");
    }
}
```

```

System.out.println("Enter the number of elements:") ;
n = sc.nextInt();
int[] a = new int[n];

System.out.println("Enter the elements") ;
for(i=0;i<n;i++)
{
a[i] = sc.nextInt();
}

System.out.println("Enter the element to be seached");
search = sc.nextInt();

/*Perform search operation*/
for(i=0;i<n;i++)
{
if(a[i]==search)
{
System.out.println("Element "+search+" found at "+i+" position");
flag=1;
break;
}
}
if(flag==0)
{
System.out.println("Element "+search+" not found");
}
}
}

```

Output :

```

sjcet@Z238-UL:~/jom/java/cycle2$ javac arr2.java
sjcet@Z238-UL:~/jom/java/cycle2$ java arr2

NAME : JOM BINOY
REG NO :SJC22MCA-2033
DATE : 24-3-2023
COURSE CODE : 20MCA132
COURSE NAME : OBJECT ORIENTEDPROGRAMMING LAB
-----OUTPUT-----
Enter the number of elements:
3
Enter the elements
3
4
5
Enter the element to be seached
4
Element 4 found at 1 position

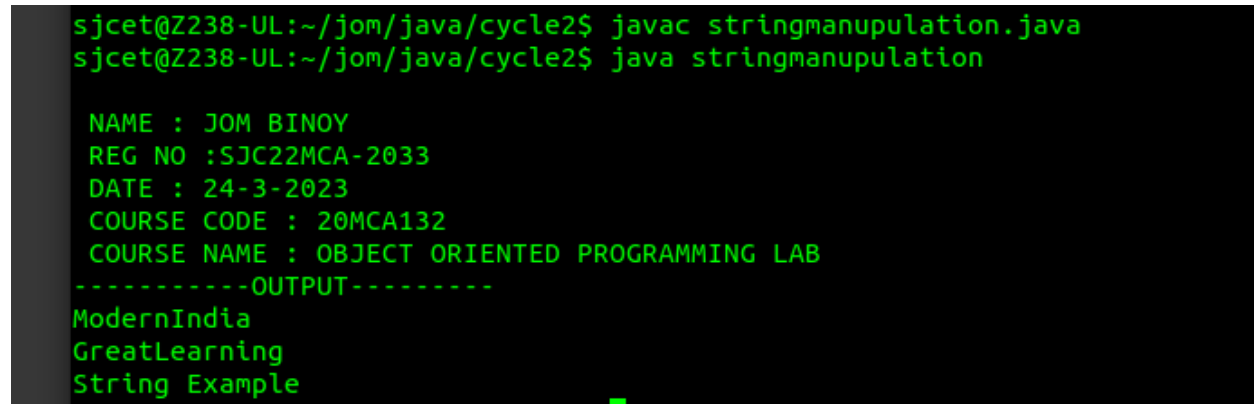
```

3. Perform string manipulations

Code :

```
class stringmanupulation{
public static void main(String args[]){
//creating a string by java string literal
String str = "ModernIndia ";
char arrch[]={ 'G','r','e','a','t','L','e','a','r','n','i','n','g'};
//converting the char array arrch[] to string str2
String str2 = new String(arrch);
//creating another java string 'str3' by using new keyword
String str3 = new String("String Example");
//Displaying all the three strings
System.out.println("\n NAME : JOM BINROY \n REG NO :SJC22MCA-2033 \n DATE : 24-3-2023 \n
COURSE CODE : 20MCA132\n COURSE NAME : OBJECT ORIENTED PROGRAMMING LAB");
System.out.println("-----OUTPUT-----");
System.out.println(str);
System.out.println(str2);
System.out.println(str3);
}
}
```

Output :



```
sjcet@Z238-UL:~/jom/java/cycle2$ javac stringmanupulation.java
sjcet@Z238-UL:~/jom/java/cycle2$ java stringmanupulation

NAME : JOM BINROY
REG NO :SJC22MCA-2033
DATE : 24-3-2023
COURSE CODE : 20MCA132
COURSE NAME : OBJECT ORIENTED PROGRAMMING LAB
-----OUTPUT-----
ModernIndia
GreatLearning
String Example
```

4. Program to create a class for Employee having attributes eNo, eName eSalary. Read n employ information and Search for an employee given eNo, using the concept of Array of Objects.

Code :

```
import java.util.Scanner;

class Employee {
    int eNo;
    String eName;
    double eSalary;
```

```

public Employee(int eNo, String eName, double eSalary) {
    this.eNo = eNo;
    this.eName = eName;
    this.eSalary = eSalary;
}

public static void main(String[] args) {
    Scanner input = new Scanner(System.in);
    System.out.println("\n NAME : JOM BINOY \n REG NO :SJC22MCA-2033 \n DATE : 24-3-2023 \n
    COURSE CODE : 20MCA132\n COURSE NAME : OBJECT ORIENTED PROGRAMMING LAB");
    System.out.println("-----OUTPUT-----");
    System.out.print("Enter the number of employees: ");
    int n = input.nextInt();

    Employee[] employees = new Employee[n];

    // Read employee information from the user
    for (int i = 0; i < n; i++) {
        System.out.print("Enter employee number: ");
        int eNo = input.nextInt();

        System.out.print("Enter employee name: ");
        String eName = input.next();
        System.out.print("Enter employee salary: ");
        double eSalary = input.nextDouble();

        employees[i] = new Employee(eNo, eName, eSalary);
    }

    // Search for an employee by eNo
    System.out.print("Enter employee number to search: ");
    int searchEno = input.nextInt();
    boolean found = false;
    for (int i = 0; i < n; i++) {
        if (employees[i].eNo == searchEno) {
            System.out.println("Employee found: " + employees[i].eNo + " " + employees[i].eName + " " +
employees[i].eSalary);
            found = true;
            break;
        }
    }
    if (!found) {
        System.out.println("Employee not found.");
    }
}
}

```

Output :

```
or sjcet@Z238-UL:~/jom/java/cycle2$ javac Employee.java  
m| sjcet@Z238-UL:~/jom/java/cycle2$ java Employee
```

```
NAME : JOM BINOY  
REG NO :SJC22MCA-2033  
DATE : 24-3-2023  
COURSE CODE : 20MCA132  
COURSE NAME : OBJECT ORIENTED PROGRAMMING LAB
```

```
-----OUTPUT-----
```

```
Enter the number of employees: 2  
Enter employee number: 101  
Enter employee name: jom  
Enter employee salary: 60000  
Enter employee number: 102  
Enter employee name: jefin  
Enter employee salary: 25000  
Enter employee number to search: 101  
Employee found: 101 jom 60000.0
```