MILESTONE-1

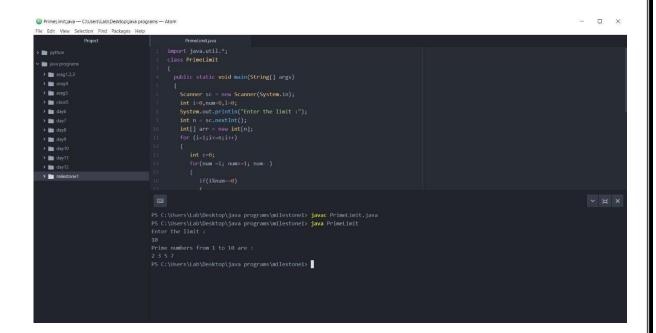
NAJMA E-211495

1. Write a Java Program to reverse a string without using String inbuilt function reverse ().

```
PS C:\Users\Lab\Desktop\java programs\milestone1> javac RevString.java
PS C:\Users\Lab\Desktop\java programs\milestone1> java RevString
Enter the string you want to reverse:Adithya
Reversed String is:
ayhtidA
PS C:\Users\Lab\Desktop\java programs\milestone1>
```

2. Write a program to take an input number from the programmer and calculate all the prime numbers from 0 to that number. Store all the prime numbers in an array and display the array elements. Example: Input=10 Output: 1,2,3,5,7

```
| Principal point | Principal
```



3. Write a Java Program to find whether a string or number is palindrome or not.

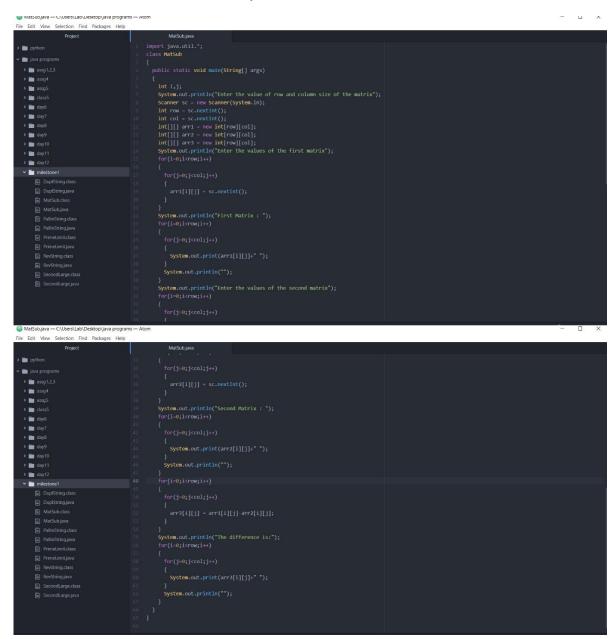
4. Write a Java Program to find the duplicate characters in a string.

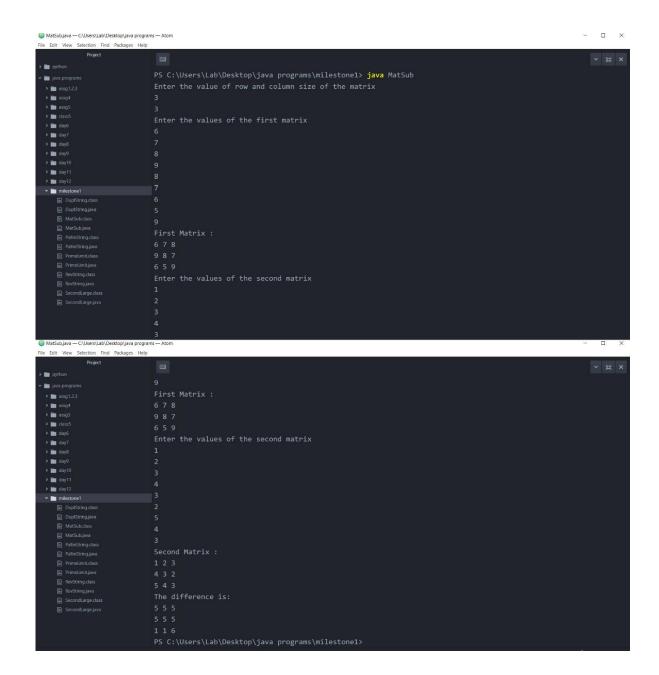
```
| Post |
```

5. Write a Java Program to find the second-highest number in an array.

```
| SecondLanguam — Cilbertaic Descript/ina programs — Anno
| Re | SecondLanguam | SecondLanguam
```

6. Write a java program to subtract two matrices. Take the input of the matrices from the user.



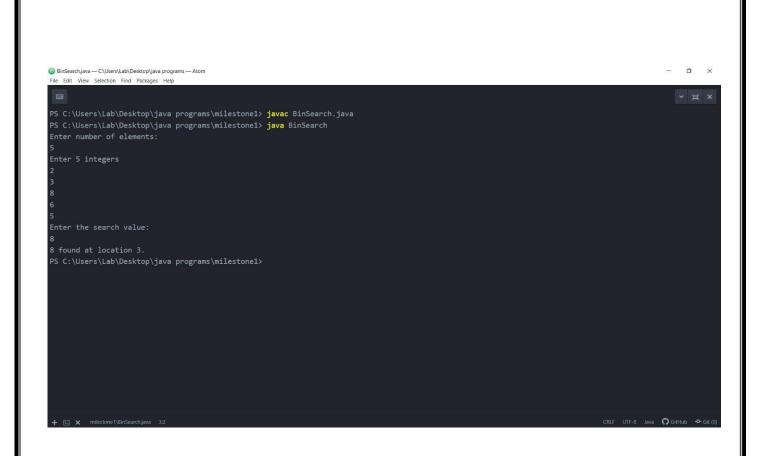


7. Write a java program to take a string input from the user. Convert all the uppercase letters to lowercase and vice-versa.

8. Write a java program to take an input array of integers and sort the array using insertion sort.

```
| New Control |
```

9. Write a java program to take an input array of integers and search for a particular number given by the user. Use binary search algorithm.



10. Write a java program to take an input array of integers and sort the elements in a descending order using selection sort.

```
SelectDescjava — C\Lbers\Lab\Desktop\java programs — Atom

Project

Project

Project

Project

PS C:\Users\Lab\Desktop\java programs\milestonel> javac SelectDesc.java

PS C:\Users\Lab\Desktop\java programs\milestonel> javac SelectDesc.java

PS C:\Users\Lab\Desktop\java programs\milestonel> javac SelectDesc
Enter the number of elements in the array

Sassgid

Massgid

Enter elements into the first array

Massgid

Ma
```

11. Write a java program to achieve 100% abstraction.

```
Abot juwa — Cijukensi kath Denkiopijiwa programs — Atom

Te isti Viwa Selection find Pickages Hipp

Abot juwa — Cijukensi kath Pickages Hipp

I jamport jawa Jo.*;

public static void main(string[] args)

{
    public static void main(string[] args)

{
         u.courses();

         u.courses();

    }

    public void display()

{
         system.out.println("calicut University");

    }

    public void courses()

{
         system.out.println("attech");

    }

    juma — Cijukensi kath Pickages Hipp

    void courses();

    void courses();
```

12. Write a java program to implement method overloading.

13. Write a java program to implement method overriding.

14. Write a java program to implement Hybrid Inheritance.

15. Write a java program to implement multilevel inheritance.

```
| Company | Comp
```

16. Write a java program to take input of integer array elements from the user and divide each element by the smallest element of the array and store the result in a resultant array. Implement Try- catch- finally block to counter null pointer divide by zero error.

```
| Description |
```

```
System.out.println("Resultant array is:");
System.out.println(Arrays.toString(res));

catch(ArithmeticException e)

System.out.println("Cant divide by zero");

catch(NullPointerException e)

System.out.println("NullPointerException Caught");

finally

System.out.println("The program has been executed successfully");

System.out.println("The program has been executed successfully");

System.out.println("The program has been executed successfully");

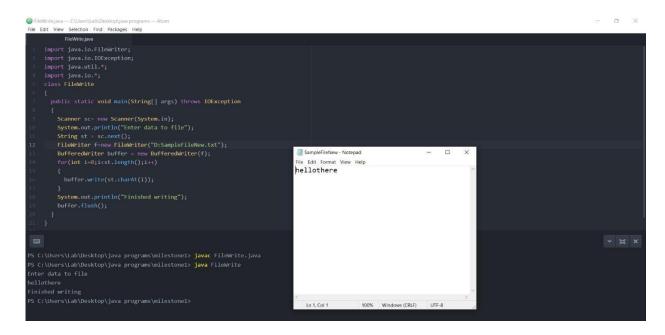
System.out.println("The program has been executed successfully");
```

```
PS C:\Users\Lab\Desktop\java programs\milestone1> javac DivSmall.java
PS C:\Users\Lab\Desktop\java programs\milestone1> java DivSmall
Enter the number of elements
5
Enter the elements to the array
4
2
6
8
16
Resultant array is :
[2, 1, 3, 4, 8]
The program has been executed successfully
PS C:\Users\Lab\Desktop\java programs\milestone1>
```

17. Write a java program to implement a constructor of the class, to print the instance variables value with respect to different objects.

```
| Section | Colonia | Col
```

18. Write a java program to create a File at a particular location and to write to that particular file a String data which is taken as input from the user.



19. Write a program to read a file from a particular location and determine the number of vowels in that file.

```
| Fine | Color | Fine | File | Color | Fine | Fine
```

20. Write a program to take input of two numbers from the user. Now perform the particular arithmetic operation specified by the user and display the result.

```
| Claim | Column | Co
```

```
System.out.println("Enter second number");

n2 = input.nextDouble();

switch (op)

{
    case '+':
    result = n1 + n2;

    System.out.println(n1 + " + " + n2 + " = " + result);

    break;

    case '-':
    result = n1 - n2;

System.out.println(n1 + " - " + n2 + " = " + result);

    break;

    case '*:
    result = n1 * n2;

System.out.println(n1 + " * " + n2 + " = " + result);

    break;

    case '/:
    result = n1 / n2;

System.out.println(n1 + " * " + n2 + " = " + result);

    break;

    case '/:
    result + n1 / n2;

System.out.println(n1 + " / " + n2 + " = " + result);

    break;

default:
    System.out.println("Invalid operator!");

    break;

}

}

}

8
}
```

21.Create an array of 10 elements and print them using the for each loop.

```
PS C:\Users\Lab\Desktop\java programs\milestone1> java ForEach
Enter 10 elements
2
4
5
6
7
8
9
2
10
12
2 4 5 6 7 8 9 2 10 12
PS C:\Users\Lab\Desktop\java programs\milestone1>
```

22. Take the number input from the console and add all the positive numbers. (Not to consider the negative number if entered).

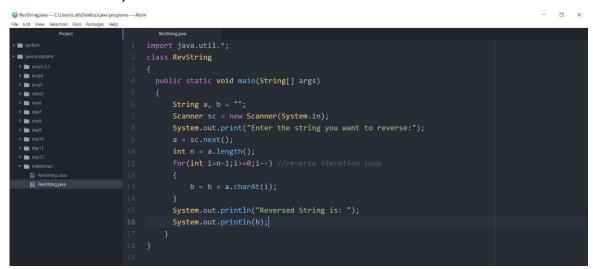
23. Create a labelled break and write a simple logic and execute the program.

```
PS C:\Users\Lab\Desktop\java programs\milestonel> javac BreakLabel.java
PS C:\Users\Lab\Desktop\java programs\milestonel> java BreakLabel
i =10
i =11
i =12
i =13
i =14
Out of the loop
```

24.Do the addition of around 10 even numbers, but use the continue statement in the logic.

```
| Second | S
```

25. Write a program to reverse the String (use char [] or String built in method)





26. Write programs to depict the usage of contains (), length (), replace (), concat (), equals ().

```
Stringsps

| Class Stringsps
| Class Stringsps
| Class Stringsps
| Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps | Class Stringsps |
```

27. Create an inheritance class. (Super class as Vehicle and 2 subclasses Car and Bike and inherit the Vehicle class methods)

```
PS C:\Users\Lab\Desktop\java programs\milestone1> javac VehicleProgram.java
PS C:\Users\Lab\Desktop\java programs\milestone1> java VehicleProgram
This is Vehicle
This is Car
This is Vehicle
This is Bike
PS C:\Users\Lab\Desktop\java programs\milestone1>
```

28. Depict programmatically the Method overloading and Method overriding concepts.

```
OMONOLOGY -- COMPANDAMONOLOGY PROPRIES

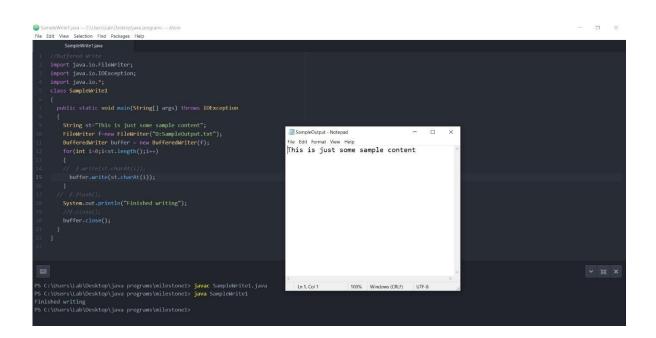
It call was besteroid.

| callas Retroid.
| callas Retroid.
| for call of the cal
```

```
PS C:\Users\Lab\Desktop\java programs\milestone1> javac MethOL.java
PS C:\Users\Lab\Desktop\java programs\milestone1> java MethOL
120
22.5
University invoked
Throughout Kerala
PS C:\Users\Lab\Desktop\java programs\milestone1>
```

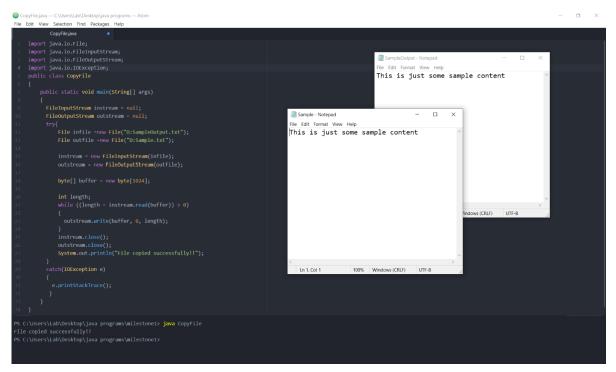
29. Create an abstract class and extend that class and try to create the object of the abstract class in a program and execute.

30. Write a java program to write the data into a file and read back using FileOutputStream/FileInputStream and also try the same using the BufferedReader and BufferedWriter.



```
| Septimental Control (Control (Control
```

32. Write a java program to copy data from one file to another file.



33. How to add an element at a specific position in an ArrayList (create using <>)

34. Create an array of employee objects and iterate through it and remove the object at the 2nd position.

```
Descendersysta—Collection principles programs—Atom

| Early | Yew | Section | Principles | Section | Section
```
