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Exercise : Introduction to Java 1

1) Write a program to replace a substring inside a string with other string ?

Answer : File name - **StringReplace.java**

Result

compiled and executed in 26.187 sec(s)

```
Enter sample string
HelloWorld

Enter substring to replace
owo

Enter string to replace with
YYYY

The replaced string is:
HellyYYYYrld
```

2) Write a program to find the number of occurrences of the duplicate words in a string and print them ?

Answer: FileName - **DuplicateWords.java**

Result

compiled and executed in 32.069 sec(s)

```
Enter sample string
hello welcome to you hello again and welcome again to you
The Duplicate words are-

hello : 2
welcome : 2
to : 2
you : 2
again : 2
```

3) Write a program to find the number of occurrences of a character in a string without using loop?

Answer: Filename - **DuplicateCharWoLoop.java**

Result

compiled and executed in 10.369 sec(s)

```
Enter sample string
tothenew

Enter character to check occurrences
t
Frequency of the element: 2
|
```

4) Calculate the number & Percentage Of Lowercase Letters, Uppercase Letters, Digits And Other Special Characters In A String

Answer: Filename - **GroupCharCount.java**

Result

compiled and executed in 19.117 sec(s)

```
Enter sample string
vIshAL69@13#$Ft
-----The Stats are-----
No of Lower : 4 Percentage: 26%
No of Lower : 4 Percentage: 26%
No of Lower : 4 Percentage: 26%
No of Lower : 3 Percentage: 20%
|
```

5) Find common elements between two arrays.

Answer : FileName- **ArrayCommon.java**

```
Terminal: Local x +
vishal@Vishal-Sharma:~/Desktop/JAVA$ javac ArrayCommon.java
vishal@Vishal-Sharma:~/Desktop/JAVA$ java ArrayCommon
Enter the length of first array
6
Enter the length of second array
5
Enter the elements of first array
1 3 5 1 3 7
Enter the elements of second array
2 3 1 7 1
Array1 : [1, 3, 5, 1, 3, 7]
Array2 : [2, 3, 1, 7, 1]
The common elements are:

[1, 3, 7]
vishal@Vishal-Sharma:~/Desktop/JAVA$
```

6) There is an array with every element repeated twice except one. Find that element

Answer: Filename- **FileSingle.java**

```
Result
compiled and executed in 1.206 sec(s)

Element appearing only once is: 5
|
```

7) Write a program to print your Firstname, LastName & age using static block, static method & static variable respectively.

Answer: Filename- **AllStatic.java**

Result

CPU Time: 0.40 sec(s), Memory: 37612 kilobyte(s)

```
|  
We are in static block  
Name: Vishal Last Name: Sharma Age: 22  
We are in static method  
Name: Vishal Last Name: Sharma Age: 22  
Using static Variable  
Name: Vishal Last Name: Sharma Age: 22
```

8) Write a program to reverse a string and remove character from index 4 to index 9 from the reversed string using String Buffer.

Answer: Filename- **ReverseRemove.java**

Result

compiled and executed in 16.103 sec(s)

```
Enter sample string  
Welcome to ToTheNew  
  
Output: weNeot emocleW  
|
```

9) Write a program to display values of enums using a constructor & getPrice() method (Example display house & their prices)

Answer: Filename- **EnumHouses.java**

```
Result
CPU Time: 0.28 sec(s), Memory: 34768 kilobyte(s)

All house prices
Cost of h1 is250000
Cost of h2 is1200000
Cost of h3 is5430000
Cost of h4 is3000000
Cost of h5 is120000
```

10) Write a single program for following operation using overloading

- A) Adding 2 integer number
- B) Adding 2 double
- C) multiplying 2 float
- D) multiplying 2 int
- E) concatenate 2 string
- F) concatenate 3 String

Answer: Filename- **MethodOverloading.java**

Result

compiled and executed in 1.883 sec(s)

```
30
31.0
200
2.88
Vishal Sharma
Vishal Freakin Sharma
|
```

- 11) Create 3 sub class of bank SBI,BOI,ICICI all 4 should have method called getDetails which provide there specific details like rateofinterest etc,print details of every banks.

Answer: Filename- **BankClass.java**

Result

compiled and executed in 11.062 sec(s)

```
Enter the Name of Bank
BOI
Enter your firstName
Vishal
Enter your lastName
Sharma
Rate of interest= 7.0
Mr/Mrs Vishal Sharma Account successfully opened in BOI bank
|
```