CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

DEVANG PATEL INSTITUTE OF ADVANCE TECHNOLOGY & RESEARCH

Department of Computer Science & Engineering

Subject Name: Java Programming
Semester: 3
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PART – 2 (STRINGS)

No.	Aim of the Practical

7.	Given a string and a non-negative int n, we'll say that thefront of the string is the first 3 chars, or whatever is there ifthe string is less than length 3. Return n copies of the front;
	front_times('Chocolate', 2) → 'ChoCho'
	front_times('Chocolate', 3) → 'ChoChoCho'
	front_times('Abc', 3) → 'AbcAbcAbc'
	
	PROGRAM CODE:
	import java.util.Scanner;
	public class pra7
	{
	public static void main(String[] args)
	{ Scanner scanner = new Scanner(System.in);
	System.out.print("Enter a string: ");
	String inputString = scanner.nextLine();
	System.out.print("Enter an integer: ");
	int n = scanner.nextInt();
	String frontPart;
	if (inputString.length() < 3)
	{
	frontPart = inputString;
	}

```
else
        {
            frontPart = inputString.substring(0, 3);
        }
       StringBuilder ans
= new StringBuilder();
        for (int i = 0; i < n; i++)
        {
            ans.append(frontPart);
        }
       System.out.println("Answer: " + ans);
        System.out.println("23DCS030_Shreya Garasia");

    }
}
```

OUTPUT:

```
Enter a string: Chocolate
Enter an integer: 3
Answer: ChoChoCho
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```

CONCLUSION:

In This Practical We Learnt About SubString and Get The Out put of Entered String.

8. Given an array of ints, return the number of 9's in the array.

array_count9([1, 2, 9]) → 1

array_count9([1, 9, 9]) → 2

array_count9([1, 9, 9, 3, 9]) → 3

PROGRAM CODE :

```
import java.util.Scanner;
class pra8
{
public static void main(String[ ] args)
{
Scanner scanner = new Scanner(System.in);
```

```
System.out.println("Enter The Size of Array : ");
int size = scanner.nextInt();
int arr[ ] = new int[size];
System.out.println("Enter The Elements of  The Array : ");
for(int i=0;i<size;i++)
{
arr[i]=scanner.nextInt();
}
int count = 0;
int i = 0;
while(i<size)
{
if(arr[i] == 9)
{
count++;
}
i++;
}
System.out.println("Number of 9's in the array :" + count);
System.out.println("23DCS030_Shreya Garasia");
}
}
```

OUTPUT:

```
Enter The Size of Array :
3
Enter The Elements of  The Array :
1
2
9
Number of 9's in the array :1
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```

CONCLUSION:

In This Practical We leant About how to find how many 9 in the array.

9. Given a string, return a string where for every char in the original, there are two chars.

double_char('The') → 'TThhee'
double_char('AAbb') → 'AAAAbbbb'
double_char('Hi-There') → 'HHii--TThheerree'

PROGRAM CODE :

```
import java.util.Scanner;
public class pra9
 {
   public static String pra9 (String input)
{
      StringBuilder result = new StringBuilder();
      for (char c : input.toCharArray())
 {
          result.append(c).append(c);
  }
      return result.toString();
   }
   public static void main(String[] args)
{
      Scanner scanner = newScanner(System.in);
      System.out.print("Enter a string: ");
      String userInput = scanner.nextLine();
      String doubledString = pra9 (userInput);
      System.out.println("Doubled string: " + doubledString);
      System.out.println("23DCS030_Shreya Garasia");
   }
}
```

OUTPUT:

```
Enter a string: The
Doubled string: TThhee
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```

CONCLUSION:

In This Practical We leant About double Character.

10. Perform following functionalities of the string:

- Find Length of the String
- Uppercase of the String
- Lowercase of the String
- Reverse String

PROGRAM CODE :

```
import java.util.Scanner;
public class pra10
{
public static void main(String[] args)
{
    Scanner scanner = new Scanner(System.in);
    System.out.print("Enter a string: ");
    String userInput = scanner.nextLine();

    //  Find Length Of The String
    int length = userInput.length();
    System.out.println("Length of the string: " + length);

    // Lowercase of the String
    String lowercase = userInput.toLowerCase();
    System.out.println("Lowercase string: " + lowercase);

    // Uppercase of the String
    String uppercase = userInput.toUpperCase();
    System.out.println("Uppercase string: " + uppercase);

    // Reverse String
    StringBuilder reversed = new StringBuilder();
    for (int i = userInput.length() - 1; i >= 0; i--)
    {
       reversed.append(userInput.charAt(i));
    }
    System.out.println("Reversed string: " + reversed.toString());
     System.out.println("23DCS030_Shreya Garasia");

}
```

}

OUTPUT:

```
Enter a string: charusat
Length of the string: 8
Lowercase string: charusat
Uppercase string: CHARUSAT
Reversed string: tasurahc
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```

CONCLUSION:

In This Practical We leant About Find Length of the String ,Uppercase of the String ,Lowercase of the String, Reverse String.

11. Perform following Functionalities of the string: “CHARUSAT UNIVERSITY”

- Find length
- Replace ‘H’ by ‘FIRST LATTER OF YOUR NAME’
- Convert all character in lowercase

PROGRAM CODE :

```
import java.util.Scanner;
public class pra11
{
  public static void main(String[] args)
{
      Scanner scanner = new Scanner(System.in);
      System.out.print("Enter a string: ");
      String userInput = scanner.nextLine();

      int length = userInput.length();
      System.out.println("Length of the string: " + length);

      String replacedString = userInput.replace('H', 'S');
      System.out.println("Replaced string: " + replacedString);

      String lowercase = userInput.toLowerCase();
      System.out.println("Lowercase string: " + lowercase);
       System.out.println("23DCS030_Shreya Garasia");
```

```
    }
}
```

OUTPUT:

```
Enter a string: charusat
Length of the string: 8
Lowercase string: charusat
Uppercase string: CHARUSAT
Reversed string: tasurahc
23DCS030_Shreya Garasia
```

CONCLUSION:

In This Practical We leant About Find length, Replace, Convertion all character in lowercase.