1) Write a Java program to get the character at the given index within the String

```
package com.collections;

import java.util.Scanner;

public class StringEx1 {
	public static void main(String[] args) {
		Scanner sc=new Scanner(System.in);
		String s="muhammedriza";
		System.out.println(s);
		System.out.println("enter an index");
		int index=sc.nextInt();
		if(index>=0&&index<s.length()) {
			System.out.println("The character at index " + index + " is: " + s.charAt(index));
	} else {
	   System.out.println("Index out of range. Please enter a valid index.");
		}


	}
}
```

2) Write a Java program to convert all the words first letter into capital for given String? (String s=”java standard edition”)

```
package com.collections;

public class CapitalizeFirstLetter {
   public static void main(String[] args) {
      String s = "muhammed riza p";
      String result = capitalizeWords(s);
      System.out.println(result);
   }

   public static String capitalizeWords(String str) {
      String[] words = str.split(" ");
      StringBuilder capitalizedString = new StringBuilder();

      for (String word : words) {
         if (word.length() > 0) {

capitalizedString.append(Character.toUpperCase(word.charAt(0)))
                        .append(word.substring(1))
                        .append(" ");
         }
      }

      return capitalizedString.toString().trim();
   }
}
```

3) Write a Java program to test if a given string contains the specified sequence of char values….match()
"welcome to carrertuner"

```
package com.collections;

public class StringContains {
   public static void main(String[] args) {
      String str = "welcome to carrertuner";
      String sequence = "carrertuner";

      boolean containsSequence = str.contains(sequence);

      if (containsSequence) {
         System.out.println("The string contains the specified sequence of characters.");
      } else {
         System.out.println("The string does not contain the specified sequence of characters.");
      }
   }
}
```

4) Write a Java program to check whether a given string ends with the contents of another string (endsWith())

```
package com.collections;
public class StringEndsWith {
   public static void main(String[] args) {
      String str = "welcome to carrertuner";
      String suffix = "carrertuner";
```

```
        boolean endsWithSuffix = str.endsWith(suffix);

        if (endsWithSuffix) {
            System.out.println("The string ends with the specified suffix.");
        } else {
            System.out.println("The string does not end with the specified
suffix.");
        }
    }
}
```

5) Count the number of words present in the given string?

```
package com.collections;

public class WordCount {
    public static void main(String[] args) {
        String str = "welcome to carrertuner";
        int wordCount = countWords(str);
        System.out.println("The number of words in the string is: " +
wordCount);
    }

    public static int countWords(String str) {
        if (str == null || str.isEmpty()) {
            return 0;
        }

        String[] words = str.split("\\s+");
        return words.length;
    }
}
```

6) Print the capital letters from string?

```
package com.collections;

public class PrintCapitalLetters {
   public static void main(String[] args) {
      String str = "Welcome to CareerTuner";
      printCapitalLetters(str);
   }

   public static void printCapitalLetters(String str) {
      for (int i = 0; i < str.length(); i++) {
         char ch = str.charAt(i);
         if (Character.isUpperCase(ch)) {
            System.out.print(ch + " ");
         }
      }
   }
}
```

7) Convert the second occurrence of ‘ l ’ into capital from “bvrit college”. lastIndexOf(‘l’)==index-9→toUppercase

```
package com.collections;

public class ConvertSecondOccurrence {
   public static void main(String[] args) {
      String str = "bvrit college";
      String result = convertSecondOccurrence(str, 'l');
      System.out.println(result);
   }

   public static String convertSecondOccurrence(String str, char ch) {
      int firstIndex = str.indexOf(ch);
```

```
        if (firstIndex == -1) {
            return str; // Character not found
        }

        int secondIndex = str.indexOf(ch, firstIndex + 1);
        if (secondIndex == -1) {
            return str; // Second occurrence not found
        }

        char[] charArray = str.toCharArray();
        charArray[secondIndex] =
Character.toUpperCase(charArray[secondIndex]);

        return new String(charArray);
    }
}
```

8) Convert the word from small letter to capital letter word in given String ?

String s =”b.v.raju college” //convert raju into capital.

```
package com.collections;
public class ss {
    public static void main(String[] args) {
        String s = "b.v.raju college";
        String wordToConvert = "raju";
        String result = convertWordToUpperCase(s, wordToConvert);
        System.out.println(result);
    }

    public static String convertWordToUpperCase(String str, String word) {
        if (str.contains(word)) {
            str = str.replace(word, word.toUpperCase());
        }
        return str}}
```