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| Q1. Write a program that accepts a String with “Betty got a bit of bitter  better butter” and perform the  following operations:  a. Print all the occurrences (index) of “b” and “t” in the string.  b. Print each word along with its length in a new line.  c. Print all the words that start with “b” in the string.   |  | | --- | | import java.util.Scanner;  class Task\_1 {  public static void main(String args[]) {  Scanner obj = new Scanner(System.in);  String str;  System.out.println("Enter String\n");  str = obj.nextLine();  System.out.println("\n Print all the occurrences index of b and t in the string.\n");  for (int i = 0; i < str.length(); i++) {  char ch = str.charAt(i);  if (ch == 'b' || ch == 't') {  System.out.println("Index of " + ch + " = " + i);  }  }  String arr[] = str.split(" ");  System.out.println("\nPrint each word along with its length in a new line.\n");  for (int i = 0; i < arr.length; i++) {  System.out.println(arr[i] + " - Length = " + arr[i].length());  }  System.out.println("\nPrint all the words that start with b in the string.\n");  for (int i = 0; i < arr.length; i++) {  if (arr[i].toLowerCase().startsWith("b")) {  System.out.println(arr[i]);  }  }  }  } | |  | |
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| Q2. Write a program that accept a string and check for following:  a. The string should have at least 3 characters.  b. The string should not have any special characters or digits except  alphabets.  If any of the condition does not matches appropriate error message  should be displayed.   |  | | --- | | import java.util.Scanner;  public class Task\_2 {  public static void main(String[] args) {  Scanner obj = new Scanner(System.in);  System.out.println();  System.out.println("Enter String: ");  String str = obj.nextLine();  if (str.length() >= 3) {  for ( int i = 0; i < str.length(); i++) {    char ch=str.charAt(i);  if ((ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch<= 'Z')) {  System.out.print(ch);  } else {  System.out.println("\nError");  break;  }  }  } else {  System.out.println("Error");  }  }  } | |  | |
| Q3. Write a program that accept a string and check for following:  a. The string should have only 5 characters.  b. The string should not have any special characters or alphabets  except digits.  If any of the condition does not matches appropriate error message  should be displayed.   |  | | --- | | import java.util.Scanner;  public class Task\_3 {  public static void main(String args[]){  Scanner obj=new Scanner(System.in);  System.out.println("Enter String \n");  String str=obj.nextLine();  if (str.length()>=5 ) {  for(int i=0;i<str.length();i++)  {  char ch=str.charAt(i);  if(ch>='0' && ch<='9'){  System.out.print(ch);  }  else  {  System.out.println("Error");  break;  }  }  }  else  {  System.out.println("Error");  }  }  } | |  | |
| 4. Write a program that accepts a string and check for following:  a. The string should have at least 6 characters.  b. The string should not have any special characters except @.  If any of the condition does not matches appropriate error message  should be displayed.   |  | | --- | | import java.util.Scanner;  public class Task\_4 {  public static void main(String args[]) {  Scanner obj = new Scanner(System.in);  System.out.println("Enter String \n");  String str = obj.nextLine();    if (str.length() >= 6 ) {  for(int i=0;i<str.length();i++)  {  char ch=str.charAt(i);  if(ch=='@'){  System.out.print(ch);    }  else  {  System.out.println("Error");  break;    }  }  } else {  System.out.println("Error");  }  }  } | |  |   5. Write a program that accepts an array by 10 names and display all  names that start with “A”.   |  | | --- | | import java.util.Scanner;  public class Task\_5 {    public static void main(String[] args) {  Scanner obj=new Scanner(System.in);  System.out.println("Enter String Lenght");  int n=obj.nextInt();  obj.nextLine();    String a[] = new String[n];  System.out.println("String array");  for(int i=0;i<n;i++)  {  a[i]=obj.nextLine();  }  System.out.println("Printed Array : ");  for(int i=0;i<n;i++)  {  if (a[i].toLowerCase().startsWith("b")) {    System.out.println(a[i]);  }  }  }  } | |  | |
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