**Question 1**

|  |
| --- |
| package com.company; |
|  |  |
|  | import java.util.\*; |
|  | public class Immutable{ |
|  | public static void main(String[] args) { |
|  | Scanner sc = new Scanner(System.in); |
|  | System.out.println("Enter a String : "); |
|  | String s = sc.nextLine(); |
|  | System.out.println(s.hashCode()); |
|  | System.out.println("Enter string to concat : "); |
|  | String str = sc.nextLine(); |
|  | s = s+str; |
|  | System.out.println("After concatenation: "+s); |
|  | System.out.println(s.hashCode()); |
|  | System.out.println("Immutable since hashcode changed"); |
|  |  |
|  | } |
|  | } |

**Question 2**

|  |
| --- |
| import java.util.Scanner; |
|  |  |
|  | public class Removeoccurences |
|  | { |
|  | public static void main(String args[]) |
|  | { |
|  | Scanner sc=new Scanner(System.in); |
|  | System.out.println("Enter string: "); |
|  | String s=sc.nextLine(); |
|  | System.out.println("Enter character to remove: "); |
|  | char c =sc.nextLine().charAt(0); |
|  | int n =s.length(); |
|  | String str=""; |
|  | for (int i= 0; i < n; i++) |
|  | { |
|  | if (s.charAt(i) != c) |
|  | str = str + s.charAt(i); |
|  | } |
|  | System.out.println(str); |
|  | } |
|  | } |

**Question 3**

|  |
| --- |
| import java.util.Scanner; |
|  | public class onlydigits |
|  | { |
|  | public static void main(String args[]) { |
|  | Scanner sc = new Scanner(System.in); |
|  | String str = sc.nextLine(); |
|  | int n = str.length(); |
|  | int flag = 0; |
|  | for (int i = 0; i < n; i++) |
|  | { |
|  | if (!(str.charAt(i) >= '0' && str.charAt(i) <= '9')) |
|  | { |
|  | flag++; |
|  | break; |
|  | } |
|  | } |
|  | if (flag == 0) |
|  | System.out.println("Contains only digits"); |
|  | else |
|  | System.out.println("String does not contain only digits"); |
|  | } |
|  | } |

**Question 4**

|  |
| --- |
| import java.util.\*; |
|  | public class IsStringEmpty{ |
|  | public static void main(String[] args) { |
|  | Scanner sc = new Scanner(System.in); |
|  | System.out.println("Enter a String : "); |
|  | String str = sc.nextLine(); |
|  | if (str == null || str.isEmpty()) |
|  | System.out.println("string is empty"); |
|  | else |
|  | System.out.println("string is not empty"); |
|  |  |
|  | }} |

**Question 5**

|  |
| --- |
| import java.util.\*; |
|  | public class Lengthofstring{ |
|  | public static void main(String[] args) { |
|  | Scanner sc = new Scanner(System.in); |
|  | System.out.println("Enter a String : "); |
|  | String str = sc.nextLine(); |
|  | int n=str.length(); |
|  | System.out.println("string length is:"+n); |
|  |  |
|  | } |
|  | } |

**Question 6**

|  |
| --- |
| import java.util.\*; |
|  | public class CompareString{ |
|  | public static void main(String[] args) { |
|  | Scanner sc = new Scanner(System.in); |
|  | System.out.println("Enter a String : "); |
|  | String s1 = sc.nextLine(); |
|  | System.out.println("Enter a String : "); |
|  | String s2 = sc.nextLine(); |
|  | System.out.println(s1.equals(s2)); |
|  | System.out.println(s1.compareTo(s2)); |
|  | } |
|  | } |

**Question 7**

|  |
| --- |
| import java.util.\*; |
|  | public class Removehyphen{ |
|  | public static void main(String[] args) { |
|  | Scanner sc = new Scanner(System.in); |
|  | System.out.println("Enter a String : "); |
|  | String str = sc.nextLine(); |
|  | System.out.print(str.charAt(0)); |
|  | for(int i=1; i<str.length()-1; i++){ |
|  | if(!(str.charAt(i) == '-' && (str.charAt(i-1) >= '0' && str.charAt(i-1) <= '9') && (str.charAt(i+1) >= '0' && str.charAt(i+1) <= '9'))){ |
|  | System.out.print(str.charAt(i)); |
|  | } |
|  | } |
|  | System.out.print(str.charAt(str.length() - 1)); |
|  | } |
|  | } |