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**Problem-1 (Answers)**

1. boolean a = s1.charAt (s1.length()-1).equals(“s”);
2. boolean b = s2.charAt(0).equals (“b”);
3. char []stringToCharArray = s2.toCharArray();
4. char upperCase =Character.toUpperCase(letter);
5. boolean check =Character.isUpperCase(c1);
6. int max =Math.max(n, n1);
7. int min =Math.min(n,n1);

**Problem -2 (Answers)**

The given loop statement is:

**while((num1==num3||num2==num3)&&(first.equals(second)||first.equals(third))||(first.equ**

**als(third)&&num3==num1))**

**boolean p = (num1==num3||num2==num3)**

**boolean q = (first.equals(second)||first.equals(third))**

**boolean r = (first.equals(third)&&num3==num1))**

The while statement in terms of p, q and r can be written as:

**while(p && q || r)**

1. No, the if statement will not execute.

Since the integer value in num1!=num3 and num2!=num3

So, p = False ( Because False|| False = False)

Since first word is not same as the second but first word is same as the third

So, q = True (Because False || True = True)

Since first word is same as the third but the integer in num3!=num1

So, r = False (Because True && False = False)

As a whole,

p && q || r = False

1. No, the if statement will not execute.

Since the integer value in num1!=num3 and num2!=num3

So, p = False (Because False || False = False)

Since first word is not same as the second and the third

So, q = False (Because False || False = False)

Since first word is not as same as the third and the integer in num3!=num1

So, r = False (Because False && False = False)

As a whole,

p && q || r = False

1. Yes, the if statement will execute.

Since the integer value in num1==num3 and num2==num3

So, p = True (Because True || True = True)

Since first word is same as the second but first word is not same as the third

So, q = True (Because True || False = True)

Since the first word is not same as the third but the integer in num3==num1

So, r = False (Because False && True = False)

As a whole,

p && q || r = True