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Grade	5.50 out of 8.00 (69%)

Question 1

Correct

Mark 2.00 out of 2.00

```
public class Lab3{
    public static void main(String[] args) {

        String string1="This is a String";
        String string2=new String("This is a String");
        String string3=string2.intern();

        if(string1 == string2){
            System.out.print("String1 equals String2 ");
        }
        if(string1==string3){
            System.out.print("String1 equals String3 ");
        }
        if(string1.equals(string2)){
            System.out.print("S1 equals S2 ");
        }
        if(string1.equals(string3)){
            System.out.print("S1 equals S3 ");
        }
    }
}
```

What will be the output of the above code?

- ☐ a. String1 equals String3 S1 equals S3
- ☐ b. String1 equals String2 S1 equals S3
- ☒ c. String1 equals String3 S1 equals S2 S1 equals S3
- ☐ d. S1 equals S2 S1 equals S3



Your answer is correct.

The correct answer is:

String1 equals String3 S1 equals S2 S1 equals S3

Question 2

Correct

Mark 2.00 out of 2.00

What does the following program does

```
public class Lab_3
{
    private static void swap(char[] A, int i, int j)
    {
        char c = A[i];
        A[i] = A[j];
        A[j] = c;
    }
    public static void BITS_PILANI(char[] c)
    {
        int begin = 0;
        int end = c.length - 1;
        while (begin < end) {
            swap(c, begin++, end--);
        }
    }

    public static void main(String[] args)
    {
        String str = "bitspilani";

        char[] c = str.toCharArray();
        BITS_PILANI(c);
        str = new String(c);
        System.out.print(str);
    }
}
```

- ☐ a. check whether given string is palindrome or not
- ☐ b. reverse a given string and convert it to upper case
- ☒ c. reverse a given string
- ☐ d. swap both words i.e. print "pilanibits"



Your answer is correct.

The correct answer is:
reverse a given string

Question 3

Correct

Mark 2.00 out of 2.00

What will be the output of the following code

```
public class Lab3{
    static final int ASCII_SIZE = 256;
    static char Find_char(String str)
    {
        int count[] = new int[ASCII_SIZE];
        int len = str.length();
        for (int i = 0; i < len; i++)
            count[str.charAt(i)]++;

        int max = -1;
        char result = ' ';
        for (int i = 0; i < len; i++) {
            if (max < count[str.charAt(i)]) {
                max = count[str.charAt(i)];
                result = str.charAt(i);
            }
        }
        return result;
    }
    public static void main(String[] args)
    {
        String str = "sample string";
        System.out.println(Find_char(str));
    }
}
```

- ☐ a. g
- ☒ b. s
- ☐ c. no output OR blank space
- ☐ d. a



Your answer is correct.

The correct answer is:

s

Question **4**

Incorrect

Mark -0.50 out of 2.00

Which is correct about an instance variable of type String?

- ☐ a. It defaults to null.
- ☐ b. It will not compile without initialising on the declaration line
- ☒ c. It defaults to an empty string.
- ☐ d. It does not have a default value.



Your answer is incorrect.

The correct answer is:
It defaults to null.

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