

## APCSA-Strings

### 1. What is wrong with the following code?

```
String s;  
System.out.println(s);
```

c. You cannot print a String without setting its value.

### 2. What is wrong with the following code?

```
String s = nextLine();
```

c. Should be: `String s = scan.nextLine();`

### 3. Which is correct?

```
String n = scan.nextLine();
```

c. `System.out.println("Hi there " + n);`

### 4. To output:

Hi There

With 2 print statements, you would need to use:

```
System.out.print("Hi ");  
System.out.println("There");
```

### 5. Given the following code segment, show what prints out after each `System.out.println`:

```
String one = "car";  
String two = one;  
one = one + " beep beep";  
System.out.println(one); // car beep beep  
System.out.println(two); // car  
two = "truck";  
System.out.println(one); // car beep beep  
System.out.println(two); // truck
```

6. Write the code to ask the user to enter their name and print:

What is your name?

Hi (the user's name), nice to meet you.

```
import java.util.Scanner;

public class nameAsk
{
    public static void main(String[] args)
    {
        // Opens the scanner
        Scanner scanString = new Scanner(System.in);
        // Prompts the user to enter their name
        System.out.print("What is your name?\n=> ");
        // Stores the user input as the variable "name"
        String name = scanString.nextLine();
        // Prints the users name within a message to standard output
        System.out.printf("Hi %s, nice to meet you.\n", name);
        // Closes scanner to prevent memleak
        scanString.close();
    }
}
```

7. Now create a variable snack and ask the user what their favorite snack is. Then print:

(the user's name from above), what is your favorite snack?

(favorite snack) sounds delicious.

```
import java.util.Scanner;

public class nameAsk
{
    public static void main(String[] args)
    {
        // Opens the scanner
        Scanner scanString = new Scanner(System.in);
        // Prompts the user to enter their name
        System.out.print("What is your name?\n=> ");
        // Stores the user input as the variable "name"
        String name = scanString.nextLine();
        // Prints the users name within a message to standard output
        System.out.printf("Hi %s, nice to meet you.\n", name);
        // Prompts the user to enter their snack
        System.out.print("%s, what is your favorite snack?\n=> ", name);
        // Stores the users snack as a variable
        String snack = scanString.nextLine();
        // Prints the users favorite snack within a message to standard output
        System.out.printf("%s sounds delicious.\n");
        // Closes scanner to prevent memleak
        scanString.close();
    }
}
```

8. Write the code to ask the user to enter 3 names, then print them one line (with spaces between) in reverse order of what they entered. (it should work for any 3 names)

```
// Imports the scanner module
import java.util.Scanner;

public class threeNames
{
    public static void main(String[] args)
    {
        // Opens a scanner
        Scanner scanString = new Scanner(System.in);
        // Prompts user to enter a name
        System.out.print("Enter a name.\n=> ");
        // Collects user input into string
        String name1 = scanString.nextLine();
        // Prompts user to enter a name
        System.out.print("Enter another name.\n=> ");
        // Collects user input into string
        String name2 = scanString.nextLine();
        // Prompts user to enter a name
        System.out.print("Enter a third name.\n=> ");
        // Prompts user to enter a name
        String name3 = scanString.nextLine();
        // Prints names in reverse order to standard output
        System.out.printf("%s %s %s\n", name3, name2, name1)
    }
}
```