

ECET 3810 – Practice Problem Set 1

1. Referring to the following segment of code, write the lines of code necessary to create a new instance of Clock called “alarm” that’s 2-inches wide by 2-inches high and has an analog format and yellow background. After creating “alarm,” immediately change its background color to blue.

```
class Clock {
    private int width, height;
    private String clockType, bgColor;

    public Clock(int wInch, int hInch, String clockFormat, String
background) {

        width = wInch;
        height = hInch;
        clockType = clockFormat;
        bgColor = background;

    }

    public void changeBackground(String newColor) {
        bgColor = newColor;
    }
}
```

2. Write down the output of the following segment of code.

```
int[] number = {3, 6, 7, 10, 12, 18, 22, 23};  
  
int i = 0;  
for ( i=1; i < number.length; i++) {  
    number[i] = number[i] % 3;  
    System.out.println(number[i]);  
}
```

3. Write the value for “n” after each compare function is executed.

n = “4”.compareTo(“3”);

n = “zoo”.compareTo(“MOO”);

n = “he”.compareTo(“INSECT”);

n = “bee”.compareTo(“bee”);

4. Write down three differences between the server sockets and regular sockets.

5. Explain why the following try-catch block is used and when the exception might occur. Assume “inField” and “errorField” have been previously declared.

String line;

```
try {  
    while ((input = inField.getText() ) != null) {  
        // process user input  
    }  
}  
catch (IOException e) {  
    errorField.setText("Error reading input");  
}
```