

ECET 3810 – Practice Problem Set 3

1. Write the content of the String variable *output* after the following snippet of code executes.

```
String input = "airplane on runway";  
String output = input.substring(3,7);
```

output = "plan"

2. Write the line(s) of code required to complete the following snippet.

```
Pencil p = new Pencil( );  
Balloon b = new Balloon( );  
:  
passObjects(objs);  
:  
private void passObjects(Object[ ] o) { }
```

Insert the following line before the call to passObjects:

Object[] objs = {(Object)p, (Object)b};

3. Complete the following statement by adding the correct casting syntax and data.

```
double d = 44.335;  
  
calculateAnswer( d);  
:  
private void calculateAnswer(int i) { }
```

calculateAnswer((int) d);

4. The scope of a method is:
- a) package
 - b) **entire class**
 - c) they are public
 - d) methods don't have scope
 - e) none of the above

5. Correct the scope problem in following class file.

```
public class Pencil
{
    private static int number = 2;

    public static void main(String[] args)
    {
        int i = 3;
        changeType(i);
    }

    private static void changeType(int n)
    {
        int number = n;
    }
}

private static void changeType(int n)
{
    number = n; // remove int before number
}
```

5. Which of the following access specifiers indicates private access outside of the member's inheritance tree, but public within it?

- a) friendly
- b) private
- c) **protected**
- d) public
- e) none of the above