Fasilkom-TI USU
Program Studi Teknologi Informasi
UJIAN AKHIR SEMESTER GENAP 2021/2022

Matakuliah/SKS	: PBO. Lanjutan (TIF2306) /3	Semester: 4
Dosen	: Sawaluddin	Hari/Tgl : Kamis/ 09 JUN 2022
Waktu	: 10.15 – 11.45 (90 Menit)	
Jawaban	: submit di elearning USU, sesuai jadwal	

1. What type of relationship exists between **someMeth** in classes A and **someMeth** in class B? Hint: *method overriding, method overloading, both method overriding and method overloading, neither*

```
class A {

      public void someMeth(){
            System.out.println( "from class A" );
      }
}

class B extends A {

      public void someMeth( String x ){
            System.out.println( "from class B: " + x );
      }
}
```

2. What is the output when you try to compile and run the following code?

```
public class Switch {
      public static void main(String[] args) {
        int i = 1;
        switch( i ) {
            case 0:
                  int j = 0;
                  System.out.print( j );
            case 1:
                  int j = 1;
                  System.out.print( j );
            case 2:
                  int j = 2;
                  System.out.print( j );
            default:
                  int j = -1;
            System.out.print( j );
            }
      }
}
```

3. What is the output of the following code segment?

```
char x = 'A';
while(x != 'D'){
      switch(x){
      case 'A':
            System.out.println(x);
            x = 'D';
      case 'B':
            System.out.println(x);
            x = 'C';
            break;
      case 'C':
            System.out.println(x);
            x = 'D';
      default:
            continue;
```

```
        }
}
```

4. Write out the output of the following code in the spaces provided:

```
public class FinalExam1 {
      public static void main(String[] args) {
            String S1 = "Java Programming" ;
            String S2 = " is taught" ;
            String S3 = " at Colorado State" ;

            int iSize = S3.length() + 3;
            System.out.println(iSize);

            char cChar = S1.charAt(10);
            System.out.println(cChar);

            int iIndex = S2.indexOf("p" );
            System.out.println(iIndex);

            String sSubstr = S1.substring(1, 7);
            System.out.println(sSubstr);

            boolean bEquals = S2.equals(" is taught");
            System.out.println(bEquals);
      }
}
```

5. Extend the code shown below to handle the **exception** that can occur when opening a file that does not exist. You do not have to add the import that is needed for the **exception**.

```
public void readFile(String filename) {

      File file = new File(filename);
      Scanner scan = new Scanner(file);

}
```