Module 1 – Java Basics

Advanced Java Certification Training

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1. Write a program to generate 9's table.

2. Define Create an array of 10 integer and print only the even values.

3. Create an integer array of m rows and n columns (where m, n < 10) and print only the odd values.

4. You need to print integers till 20, which loop construct is the best for this?

```
package mod1;
      public class Loop_20_int {
           private static final int NUMBER_TO_PRINT = 20;
           public static void main(String[] args) {
                int i =0;
                    i++;
               System.out.println(i);
}while(i<NUMBER_TO_PRINT);
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 16
           }
 18 }
🖳 Problems 🎯 Javadoc 🖳 Declaration 📮 Console 🛭
<terminated> Loop_20_int [Java Application] /usr/lib/jvm/java-1.8.0-c
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```

5. Create 2 integer matrices of m rows and n column each and add these 2 matrices.

```
package mod1;
       public class MatrixAdd {
             public static void main(String[] args) {
   50
                        arr2D_1 [][] = {{1,2,3}, {4,5,6}, {7,8,9}},
arr2D_2 [][] = {{10,11,12}, {13,14,15}, {16,17,18}},
arr2D_3 [][] = new int[3][3];
  10
  11
  12
                   for (int i = 0;i < arr2D_1.length ;i++) {</pre>
                        for(int j = 0; j < arr2D_1[i].length ; j++) {
    arr2D_3 [i][j] = arr2D_1 [i][j] + arr2D_2 [i][j] ;
    System.out.print( arr2D_3 [i][j] + " ");</pre>
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                         System.out.println();
  17
 18
💦 Problems 🏿 Javadoc 🖳 Declaration 📃 Console 🛭
<terminated> MatrixAdd [Java Application] /usr/lib/jvm/java-1.8.0-openjdk-1.8.0.144-0.b01
17 19 21
23 25 27
```

6. For the above problem add the relevant code to check valid inputs. Hint: To add matrices they must be of equal dimension.