Winter Semester -2020-21

Final Assessment Test

CSC3001-JAVA Programming LAB

Marks: 50

Faculty: Prof.P.Ushapreethi

Duration: 90 minutes

Date: 4/6/2021

Time: 2-3.30 PM

1. Create the classes named Vehicle and Dwelling. The Vehicle class contains data members such as a vehicle identification number, make, and number of miles the vehicle can travel on a gallon of gas. The Dwelling class contains data members such as number of bedrooms and area in square feet. Create a recreational vehicle class RV inherits from both Vehicle and Dwelling. RV is a vehicle that "is a" Vehicle (you drive it; it runs on gas), but also "is a" Dwelling (you sleep, cook, and live in it, at least during road trips). Create a main function inside the class RVDemo to receive five arguments required for the RV class constructor; in which, three are passed to the Vehicle constructor and the other two are passed to the Dwelling constructor. Display the received values and the rental amount using RV class display() function.

(30 marks)

2. Write a program that prompts the user to input an odd digit. The program should then output a hollow rhombus of that size using the digit. For example, if input is 5, then the output is as follows: (20 marks)

```
    5
   5 5
  5   5
   5 5
    5
```

Note:
1. Complete the JAVA code, compile, and run it in any one of the JAVA compiler.
2. Document the JAVA code & the screenshots of the outputs and upload it in VTOP within the given duration.