

Object-oriented Programming: 420-ENP-MT (GROUP 308)

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Mid Term

25 marks

29th August 2018

- 1) Write a Java program to print the even Fibonacci numbers from 0 to 500. Also, display the total sum of these numbers. (7)

- 2) Write a java method named season that takes two integers as parameters representing a month and day and that returns a String indicating the season for that month and day. Assume that months are specified as an integer between 1 and 12 (1 for January, 2 for February, and so on) and that the day of the month is a number between 1 and 31. If the date falls between 12/16 and 3/15, you should return "Winter". If the date falls between 3/16 and 6/15, you should return "Spring". If the date falls between 6/16 and 9/15, you should return "Summer". And if the date falls between 9/16 and 12/15, you should return "Fall". Use Class, constructors, objects and methods appropriately (10)

- 3) Write a method named allDigitsOdd that returns whether every digit of a positive integer is odd. Your method should return true if the number consists entirely of odd digits and false if any of its digits are even. 0, 2, 4, 6, and 8 are even digits, and 1, 3, 5, 7, 9 are odd digits. For example, if the input is 135319, the method should return true and returns false if the user value is 9145293 (8)