

CS6308- Java Programming

Assignment 2

Instructions:

- Use camel case for class name and variable name.
- Class name must follow your last 4 digit register number
- First statement in the output is your Register number, name, current date and time

Topic : Control statements

1. Write a program to determine the custom grade of the marks given. If the marks go beyond 100 or lower than 0 then state the input is invalid.

90 to 100 : Grade O

80 TO 89 : Grade A+

70 TO 79 : Grade A

60 TO 69 : Grade B+

50 to 59 : Grade B

0 TO 49 : Grade U

Hint: use If statement

2. Write a program that simulates the **coin toss** as head or tail. Use Random number 0 Or 1 to determine the system input. The program should print the result as head if it one and tail if it is zero. Read the input from the user as a character 'h' or 't' or 'H' or 'T' and tell the user whether he or she has predicted the coin toss correctly . Declare the result as Won the toss! Or lose!

(Hint: Use Random class to get the random input 0 to 1).

3. Write a program to output the **number of days of the month**(1 to 12) in the given year. The value of the month February is 28 or 20 based on the

leap year. Give warning for invalid input that is of digit less than 4 or greater than 5.

Hint: Use Switch statement

4. Write a program that **verbalize** the user inputs between 1 and 9999 number. For example

Input number : 852

Eight hundred and fifty two

5. Write a program to create **24-hour digital watch**. Get the input from the user for the day(Mon, Tue, Wed, Thu, Fri, Sat, Sun) , hour (24-hour) , minute and seconds . The input of the user is valid then the digital clock should advance the input by one second and display the new day, hour, minute and second.

Sample input:

Input day : Mon

Input hour : 23

Input minute : 59

Input second : 59

Sample output

Tue 0 0 0

Hint: Use for statement