**21CSC203P Advanced Programming Practice**

**Tutorial Assigment 4**

1. Write a JAVA program to find those numbers which are divisible by 8 and multiple of 5, between 1000 and 2000 (both included)
2. Write a JAVA program to guess a number between 1 to 9. Note : User is prompted to enter a guess. If the user guesses wrong then the prompt appears again until the guess is correct, on successful guess, user will get a "Well guessed!" message, and the program will exit.

3. Write a JAVA program to construct the following pattern, using a nested for loop.

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\* \*   
\* \* \*   
\* \* \* \*   
\* \* \* \* \*   
\* \* \* \*   
\* \* \*   
\* \*   
\*

4. Write a JAVA program that accepts a word from the user and reverse it. ( should not use any functions)

5. Write a JAVA program that accepts a string and calculate the number of digits and letters.

Sample Data : SRMIST JULY 2023

Expected Output :  
Letters 10  
Digits 4

6. Write a JAVA program to check the validity of password input by users.  
Validation :

* At least 1 letter between [a-z] and 1 letter between [A-Z].
* At least 1 number between [0-9].
* At least 1 character from [$#@].
* Minimum length 6 characters.
* Maximum length 16 characters.

Sample output

Input your password srmist@2017

Not a Valid Password

Input your password Srmist@2022

Valid Password

7. Write a JAVA program to find numbers between 100 and 400 (both included) where each digit of a number is an even number. The numbers obtained should be printed in a comma-separated sequence.

8. Write a JAVA program to convert month name to a number of days.

9. Write a JAVA program to sum of two given integers. However, if the sum is between 105 to 200 it will return 200.

10. Write a JAVA program to construct the following pattern, using a nested loop number.

Expected Output:

999999999

88888888

7777777

666666

55555

4444

333

22

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