Course name:  **Advanced Algorithms** Course code: **CS 601**

Instructor: **Dr. Vidhyacharan Bhaskar**

Instructions: a) Exercise problems could be hand-written or printed.

b) Computer projects must be printed (need both source code and the output) for

Questions 1 and 3.

c) Show the entire working for all handwritten homeworks.

**Homework assignment 1** (Due date: **Feb. 09, 2021 before 1 pm**)

Note: Questions are taken from the textbook.

**Total: [40 points]**

1. Graph the solved exercise 1 (Page 65). Show the source code and output graphs.
2. Exercise 1 (Page 67).
3. Exercise 3 (Page 67). Plot the respective growth rates. Show the source code and output graphs.
4. Exercise 5 (Page 68).
5. Exercise 1 (Page 107)
6. Exercise 2 (Page 107).
7. Exercise 6 (Page 108).
8. Exercise 7 (Page 108).