

Object Oriented Programming

Assignment 1 – SE All sections

Submission Items:

1. Complete code files (that have been provided with the assignment). Comments with all core functions is mandatory and hold **10% of the assignment marks**. You will have a separate question file for each question.

Assignment Information

- Coding language: C++
- Approx. lines of code: ~75-150 per question (code logic)
- Approx. time needed to build: 200 mins.

Prerequisite for this assignment

You need knowledge about

- Variable
- Input and output
- Conditions
- Loops
- Structures
- Recursions

Instructions (before starting the assignment):

1. Assignments are to be done individually.
2. The code you write must be your own and you must understand each part of your code. You are encouraged to get help from the course instructors through google classroom and email.
3. Do not use any string built-in functions (such as strlen, strcmp etc). **Caution: zero marks will be awarded.**
4. Apply all validations for invalid inputs.
5. Do not edit **Function Prototypes**. **Caution:** zero marks will be awarded. (unless specified)
6. **Plagiarism:** Plagiarism of any kind (copying from others, copying from the internet, etc) is not allowed. If found plagiarized, you will be awarded **zero marks** in the assignment. Repeating such an act can lead to strict disciplinary actions and failure in the course.
7. **Please start early otherwise you will struggle with the assignment.**

Submission Guidelines

- a. Only submit .cpp file for each question Your submission.cpp file must contain your name, student-id, and assignment # on the top of the file in the comments. Example the first line of every questions should be
//Bilal_Khalid_Dar_22i2348 .
Missing this will result in 20% marks deduction in each question.

- b. Move your all .cpp in one folder. The folder must contain only submission.cpp files (no binaries, no exe files etc.,). If we unable to download your submission due to any reason you will be awarded **zero mark**.
- c. Run and test your program on a lab machine before submission. If there is a syntax error, zero marks will be awarded in that specific question.
- d. Rename the folder as **ROLL-NUM_SECTION** (e.g. 21i-0001_A) and compress the folder as a zip file. (e.g. 21i-0001_A.zip). **Only zip file will be acceptable.**
- e. Submit the .zip file on Google Classroom within the deadline. **Late submission will be marked zero.** No exceptions
- f. Submission other than Google classroom (e.g. email etc.) will not be accepted.
- g. The student is solely responsible to check the final zip files for issues like corrupt files, viruses in the file, mistakenly exe sent. If we cannot download the file from Google classroom due to any reason it will lead to zero marks in the assignment.

General Rules

- This is an individual assignment.
- All coding standards must be followed (meaningful variable name, code comments etc.)
- Apply all validations for invalid inputs

Judging Criteria

- The effectiveness of the algorithm used in solving the problem statement
- Understanding of the basic concepts involved
- The simplicity and ease of use of input interface, and the aesthetics of the display
- Completion of program as per given instructions.

Bonus mark questions for assignment 1 (+5)

Make a hangman game using recursion!

For any query email: bilal.khalid@nu.edu.pk

Send a WhatsApp Voice Note: +92 340 8980169

Instructions:

First message your name, roll no. and section, then send a voice note. Without your information, no response will be provided.