

Assignment: submit on/before final exam date

Handwritten or typed

1. What are the storage classes a variable may have? What is the scope of a variable in each storage class? Give example.
2. What is an Array variable? How can we declare and initialize an array variable in C?
3. What is the difference between the following two arrays:

```
char myName[5]="RAHIM", yourName []="RAHIM";
```
4. How can we pass an array to a function? What type of passing it is?
5. What is pointer? Show how pointer can be used to pass arguments by reference to a function.
6. What are the differences between call by value and call by reference while passing arguments in a function. Give example with explanation.
7. How pointer variable can be used instead of array? Give example. What is the benefit of doing so?
8. Briefly describe what types of operation can be done with a pointer variable.
9. What is difference between an array and a structure?
10. Write the syntax of a structure. What is the difference between a union and a structure?
11. What is difference between "." and "->" symbols used to refer a member variable of a structure?
12. With example show how can we use user defined data type in C.
13. Write the basic syntax of using a file for input/output. Mention the meaning of different file-type specifications used in C file handling.
14. What are the syntax and function of following functions:
fopen(), fclose(), fscanf(), fprintf(), fwrite(), fread(), fputc(), fgetc(), fputs(), fgets()