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| **Week 3 Task** | **Title: Input and Output** |
| **Name and Student ID** |  |

**Tutorial Task(s)**

1. Explain the keywords: a) control code b) Flag modifier c) Format Specifier d) precision modifier e) size modifier f) white space g) width modifier
2. Explain how can print% character using printf()?
3. What will be the return type of print()?
4. How do write printf() so that width of the field can be specified at run time?
5. Explain the acronym “EOF”?
6. Differentiate between formatted input and output statement in C program?
7. What does the getchar() and putchar() functions performs?
8. Will the call scanf(“%d), i) works? Provide your reasons?
9. On the screen write the words: She sells seashells by the seashore
10. All in one line
11. In three lines
12. Mention the specific reasons for scanf() will stop in the program?

Case study

The packing department of a television set manufacturer has to prepare a requisition note listing the number of different boxes required for the different models that it has received from the production department. The list prepared has to be forwarded to the store department so that the required boxes are issued to the packing department. The category and the number of boxes required for each type of TV model is given below:

|  |  |  |
| --- | --- | --- |
| **Model Type** | **Box Type** | **Numbers** |
| TV\_LCD 17 | 1 | 98 |
| TV\_LCD 22 | 2 | 79 |
| TV\_LCD 26 | 3 | 65 |
| TV\_LCD 32 | 4 | 45 |
| TV\_LCD\_40 | 5 | 17 |

Write a program based on the above provided data on which requisition note has to be prepared and printed. The note should specify the type and number of box required for each kind of TV model.

Analysis: The program must accomplish the task specified based on the problem, i.e. which accepts the number of sets of different tv models for each of which a particular type of packing box is required. The box type for each model is of standard dimension and it is pre-assigned a unique type number. Using the above data in the table, a requisition note must be printed by the program.