# **Printf Scanf Assignment**

**Mandatory:**

**Q1. WAP with**

**1a. function readdisplay() to read the following data types only one at a time at run time and to display.**

1. **char type**
2. **integer type**
3. **char array of maximum 80 characters**
4. **short type**
5. **float type**

**TestData:**

**‘c’, 8978, “hello”, 8, 45.678**

**‘H’, 254, “hello Hi How”, 256, 145.2678**

**A screen shot of a computer program

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**1b. Create a copy of readdisplay() as function readdisplay2() with changes below**

* **Instead of reading 1 data at a time, read all inputs using a single scanf().**

**Test readdisplay2() by changing the read order. Do you observe any issue?**

When the user presses space or enter (newline \n), it can remain in the input buffer, and this might cause problems when you attempt to read further input.

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**1c. display the char array content in upper case**

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**1d. Add code to display the size of each data type mentioned in Q1a and sizeof the variables of each datatype (You may refer sample code in data\_type\_size.c )**

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**Q2. Try to run the program with code snippet below. Check the output and analyse. Fix it to get correct result.**

**#include<stdio.h>**

**int main()**

**{**

**unsigned long int ul = 200333333334340;**

**printf("value is:%d\n", ul);**

**return 0;**

**}**

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