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.

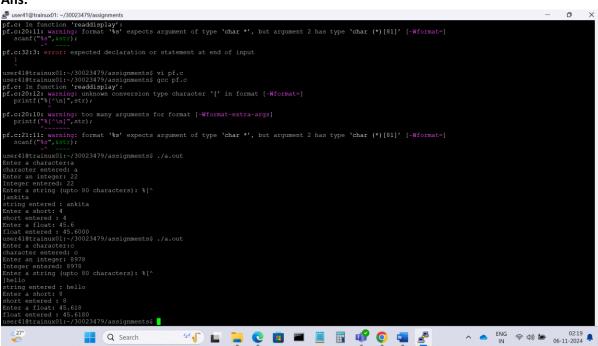
- 1. char type
- 2. integer type
- 3. char array of maximum 80 characters
- 4. short type
- 5. float type

TestData:

'c', 8978, "hello", 8, 45.678

'H', 254, "hello Hi How", 256, 145.2678

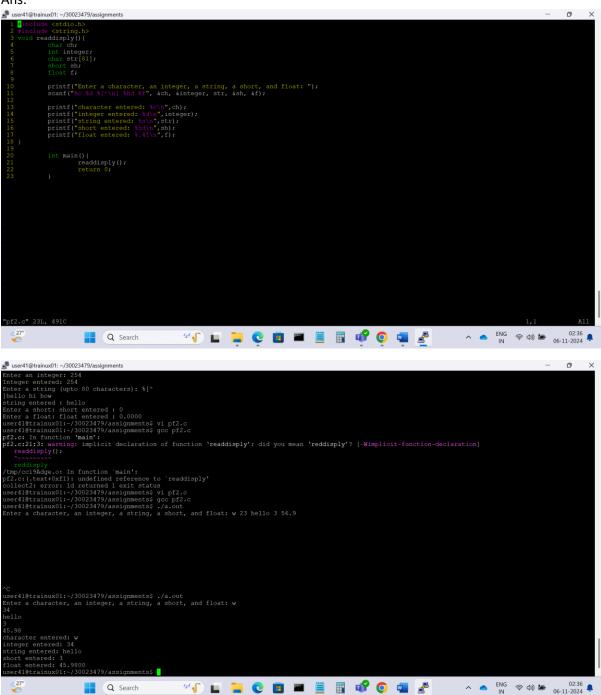
Ans:



- 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?

Ans:



1c. display the char array content in upper case

Ans:

```
Q Search
♣ user41@trainux01: ~/30023479/assignments
      eddisply
/cci9Adge.o: In function 'main':
c:(.text+0xfl): undefined reference to 'readdisply'
ect2: error: ld returned 1 exit status
41@trainux01:-/30023479/assignmentss vi pf2.c
41@trainux01:-/30023479/assignmentss gcc pf2.c
41@trainux01:-/30023479/assignmentss //a.out
r a character, an integer, a string, a short, and float: w 23 hello 3 56.9
            ntered: 'Reilo
tered: 45.9800
rainux01:-/30023479/assignments$ vi pf2.c
rainux01:-/30023479/assignments$ gcc pf2.c
rainux01:-/30023479/assignments$ //a.out
character, an integer, a string, a short, and float: w
```

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

Ans:

```
user41@trainux01: ~/30023479/assignments
                                                     127°
                            Q Search
user41@trainux01: ~/30023479/assignments
    pgg
racter entered: w
pggr entered: 45
Ing entered: HELLO
tt entered: 67.0980
at entered: 67.0980
at entered: 67.0980
at entered: 67.0980
at-letrainux01:-/30023479/assignments% vi pf.c
at-letrainux01:-/30023479/assignments% op pf.c
: In function 'readdisplay':
:: In function 'readdisplay':
::20112: warning: unknown conversion type character '[' in format [-Wformat=]
printf("%|^n|)",str);
      a character:w
cter entered: w
an integer: 456
er entered: 456
a string (upto 80 characters): %[^
 size of float: 4 bytes
ser41@trainux01:~/30023479/assignments$
```

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 = 2003333333334340;
    printf("value is:%d\n", ul);
    return 0;
```

```
}
```

Ans:

