EXPERIMENT : 21

Write a program to read a list at a time and write a list at a time using the well defined read & write function s

Program:

```
# define a function to read a list from user input

def read_list():

    # read a line of user input and split it into a list

    input_str = input()

    lst = input_str.strip().split()

    # convert each element to its appropriate data type

    for i in range(len(lst)):

        try:

            lst[i] = int(lst[i])

        except ValueError:

            try:

                lst[i] = float(lst[i])

            except ValueError:

                pass

    return lst


# define a function to write a list to the console

def write_list(lst):

    # convert each element to a string and join them with spaces

    output_str = " ".join(str(x) for x in lst)

    # write the string to the console

    print(output_str)


# read a list from the user and write it back

lst = read_list()

write_list(lst)
```