

1. WAP to read an integer number and add the individual digits contained in it until the final sum is a single digit.

E.g. Entered Number (n) = 2175698

$$= 2 + 1 + 7 + 5 + 6 + 9 + 8$$

$$= 38$$

$$= 3 + 8$$

$$= 11$$

$$= 1 + 1$$

$$= 2 \text{ [final answer]}$$

2. Write a sample program to illustrate all types of function
 - a. With return type and parameter
 - b. Without return type and parameter
 - c. With return type and no parameter
 - d. With parameter no return type
3. WAP that finds the longest word in a given string
4. WAP to print the following pattern

```
*  
* *  
* * *  
* * * *  
* * * * *
```

5. WAP that writes the data to the file named mydata.txt and read them back.
6. Create a structure STUDENT containing name, symbol number, name of 6 subjects, mark of each subject and total mark as its members. WAP that uses this structure and reads data for a student and gives the total marks as the output.