

Lab Question 2: Check for a Valid String

Aim:

To write a C program to check if a given string contains only alphabets.

Algorithm:

1. Start the program.
2. Read the string.
3. Traverse each character:
 - If any character is not alphabet, mark invalid.
4. If all are alphabets → valid string.
5. Stop.

Code:

```
#include <stdio.h>
#include <ctype.h>
int main() {
    char str[100];
    int i, valid = 1;
    printf("Enter a string: ");
    scanf("%s", str);
    for (i = 0; str[i] != '\0'; i++) {
        if (!isalpha(str[i])) {
            valid = 0;
            break;
        }
    }
    if (valid) printf("Valid String");
    else printf("Invalid String");
    return 0;
}
```

Test Cases:

- Input: Hello → Output: Valid String
- Input: Hi123 → Output: Invalid String

Result:

The program checks if a string is valid (alphabets only).