

2. Implement a C Program to Check for a valid String

Code

```
#include <stdio.h>

#include <ctype.h> // for isalnum()

int main() {

    char str[] = "Hello123"; // fixed string to test

    int i, valid = 1;

    // Check each character
    for (i = 0; str[i] != '\0'; i++) {

        if (!isalnum(str[i])) { // not a letter or digit

            valid = 0;

            break;

        }

    }

    // Display result
    printf("String: %s\n", str);

    if (valid)

        printf("Valid String\n");




    else

        printf("Invalid String\n");

    return 0;

}
```

Output

main.c		   Share	Run	Output
<pre>1 #include <stdio.h> 2 #include <ctype.h> // for isalnum() 3 4 int main() { 5 char str[] = "Hello123"; // fixed string to test 6 int i, valid = 1; 7 8 // Check each character 9 for (i = 0; str[i] != '\0'; i++) { 10 if (!isalnum(str[i])) { // not a letter or digit 11 valid = 0; 12 break; 13 } 14 } 15 16 // Display result 17 printf("String: %s\n", str); 18 if (valid) 19 printf("Valid String\n"); 20 else 21 printf("Invalid String\n"); 22 23 return 0; 24 }</pre>				<p>String: Hello123 Valid String</p> <p>=== Code Execution Successful ===</p>