

# **INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR**

Department of computer science and engineering

**Report on  
“Assignment-1  
Simple Client – Server request response programs”**

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# Black box testing

**Black-box testing** is a method of [software testing](#) that examines the functionality of an application without peering into its internal structures or workings.

## Test cases

### Case 1:

Input format must be String;keyword. If not semicolon in between the String and keyword program not generated output its reported simply error.

### Case 2:

String must be less than or equal to 30 and keyword must be less than or equal to 5. If any of the two condition is false program generated error accordance to given below table.

### Case 3:

If the string is empty while keyword is not empty program generated error.

### Case 4:

If the input length is zero or no input provided by user program also generated error.

### Case 5:

If the input string is not empty and the keyword is empty program generated error refer below table.

### Case 6:

It is possible that the keyword does not match in the string word than output is 0.

# TESTING

S.no.	Input	Expected Output	Actual Output	Pass/Fail
1.	iit kharagpuriit kharag;iit	2	2	Pass
2.	aaabbbbaa;a	5	5	pass
3.	awsedfrtgfdcvfrtghfrdetfrdes dft;gh	string length must be <=30 or keyword must be <=5	string length must be <=30 or keyword must be <=5	Pass
4.	;a	empty string	empty string	Pass
5.	NULL	empty string	empty string	Pass
6.	A;	empty string or keyword	empty string or keyword	Pass
7.	Sdghahsa;ghdhus	string length must be <=30 or keyword must be <=5	string length must be <=30 or keyword must be <=5	Pass
8.	iit;iit	1	1	Pass
9.	iit kharagpur;west	0	0	Pass
10.	iitkharagpur;west	0	0	Pass
11.	hfdhsbbsdcjhds	Incorrect input format	Incorrect input format	Pass