Test cases, test path, input and expected output

1. is_keyword

Test paths:- [1,2]

i. Input -: if

ii. Expected Output :- True.

Test paths:- [1,3]

i. Input -: then

ii. Expected Output :- False

2. is num constant

Test paths:- [1,2,3,4,2,6]

i. Input -: 99

ii. Expected Output :- True

Test paths:- [1,7]

i. Input -: Sandy

ii. Expected Output :- False

Test paths :- [1,2,3,5]

i.Input :- 9B

ii. Expected Output :- False

3. is str constant

a. Test paths:- [1,2,3,4]

i. Input -: ""

ii. Expected Output :- True

b. Test paths:- [1,7]

i. Input -: 9

ii. Expected Output :- False

c. Test paths :- [1,2,3,5,2,6]

i. Input:- "sandy"

ii.Expected Output :- True

d. Test paths :- [1,2,6]

i.Input :- "

ii. Expected Output :- False

4. is identifier

- a. Test paths:- [1,2,3,4,2,6]
 - i. Input -: b9
 - ii. Expected Output :- True
- b. Test paths:- [1,7]
 - i. Input -: 9
 - ii. Expected Output :- False
- c. Test paths :- [1,2,6]
 - i. Input:- 1
 - ii.Expected Output :- True
- d. Test paths :- [1,2,3,5]
 - i.Input :- b
 - ii. Expected Output :- true

5. is token end

- a. Test paths:- [1,2]
 - i. Input -: 99,-1
 - ii. Expected Output :- True
- b. Test paths:- [1,3,4,6]
 - i. Input -: 1,99
 - ii. Expected Output :- False
- c. Test paths :- [1,3,4,5]
 - i. Input:- 1,13
 - ii.Expected Output :- True
- d. Test paths :- [1,3,7,8,9]
 - i.Input :- 2,13
 - ii. Expected Output :- true
- e. Test paths:- [1,3,7,8,10]
 - i. Input -: 2,99
 - ii. Expected Output :- False
- f. Test paths:- [1,3,7,11,12]
 - i. Input -: 5,40
 - ii. Expected Output :- True
- g. Test paths :- [1,3,7,11,13,14]
 - i. Input:- 30,32
 - ii.Expected Output :- True
- h. Test paths :- [1,3,7,11,13,15]
 - i.Input :- 5,90

5. Get token [All input are provided in a file]

- a. Test paths:- [1,2]
 - i. Input -: Empty file
 - ii. Expected Output :- null
- b. Test paths:- [1,3,4,6,7]
 - i. Input -: File with new line character [\n\0]
 - ii. Expected Output :- null
- c. Test paths :- [1,3,4,5,4,6,7]
 - i. Input:- File with two new line character [\n\n\0]
 - ii.Expected Output :- null
- d. Test paths :- [1,3,4,6,8,9]
 - i.Input :- File with , character [,]
 - ii. Expected Output :-,
- e. Test paths:- [1,3,4,6,8,10,11, 12, 14, 15,]
 - i. Input -: File with "character ["]
 - ii. Expected Output :- "
- f. Test paths: -[1,3,4,6,8,10, 12, 14, 16,17,18,19,21,22]
 - i. Input:- S
 - ii.Expected Output :- S
- g. Test paths: -[1,3,4,6,8,10, 12, 14, 16,17,21,22]
 - i.Input :- Sam
 - ii. Expected Output :- Sam
- h. Test paths:- [1,3,4,6,8,10, 12, 14, 16,17,21,23,24]
 - i. Input -: Sandy[
 - ii. Expected Output :- Sandy
- i. Test paths:- [1,3,4,6,8,10, 12, 14, 16,17,21,23,25,26,27,28]
 - i. Input -: Sandy"
 - ii. Expected Output :- Sandy"
- j. Test paths: -[1,3,4,6,8,10, 12, 14, 16,17,21,23,25,29,30]
 - i. Input:- Sandy;
 - ii.Expected Output :- Sandy
- L. Test paths: -[1,3,4,6,8,10, 12, 14, 16,17,21,23,25,29,31]
 - i.Input :- "Sandy"
 - ii. Expected Output :- "Sandy"
- m. Test paths: -[1,3,4,6,8,10, 12, 14, 16,17,21,23,25,26,28]

```
i. Input :- ;Sandyii. Expected Output :- ;Sandy
```

6. Main

- a. Test paths:- [1,2,6,7,8,9,12]
 i. Input -: Empty text file
 ii. Expected Output :- No output
 b. Test paths:- [1,3,5]
- i. Input -: No Input
 - ii. Expected Output :- "Error! Please give the token stream"
- c. Test paths :- [1, 2, 6, 7, 8, 9, 10, 11, 9, 12]
 i. Input:- * (C:\Users\Sindhu parajuli\Desktop\HCI.txt)
 - ii.Expected Output :- error,"*".
- d. Test paths :- [1,3,4,6,7,8,9,12]
 - i.Input :- Empty file
 - ii. Expected Output :- No output

End to End Coverages

1. Test path

```
main[1,2,6,7 -> open_token_stream[1,2 -> open_character_stream[1,2,4],4],8 ->get_token[1,2],9,12]
Input :- * ( C:\Users\Sindhu parajuli\Desktop\HCI.txt)
```

Expected Output :- error,"*".

2. Test path

```
main[1,2,6,7 -> open_token_stream[1,3 -> open_character_stream[1,3,4],4],8 ->get_token[1,3,4,6,7],9,12] Input :- ( (C:\Users\Sindhu parajuli\Desktop\HCI.txt) Expected Output :- lparen.
```

3. Test path main[1,2,6,7 -> open_token_stream[1,3 -> open_character_stream[1,3,4],4],8 ->get_token[1,3,4,6,7],9,10, 11, 9, 12]

```
Input :- (( ( C:\Users\Sindhu parajuli\Desktop\HCI.txt) Expected Output :- lparen. lparen.
```