**Problem Statement:** Check whether given string is palindrome or not

In this problem, we will find the reverse of the given string and we will check the given string and reverse of the given string is same or not. If they are same, the given string is Palindrome or Not Palindrome.

**Example:** If the given string is madam then the reverse of that string is also madam. So the given string madam is a palindrome

|  |  |
| --- | --- |
| Expected Input | Expected Output |
| madam  abcd  book  ab121ba  msit | True  False  False  True  False |

**Pseudo Code**

1. Enter a string
2. Declare le as length of a string
3. Declare c to keep character by character of a string
4. Declare b as empty character
5. Take i = le
6. If i>=0
   1. Calculate b=b+c[i]
   2. Decrement i and go to 6
7. Convert b into characters and store in r
8. If r==c then Print True else False

**Trace Table**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| string | le | c | b=’’ | i=len | i>0 | b=b+c[i] | i-- | r | r==c | Output |
| madam | 5 | m a d a m |  | 5 | True | m | 4 |  |  |  |
|  |  |  |  |  | True | m a | 3 |  |  |  |
|  |  |  |  |  | True | m a d | 2 |  |  |  |
|  |  |  |  |  | True | ma d a | 1 |  |  |  |
|  |  |  |  |  | True | m a d a m | 0 |  |  |  |
|  |  |  |  |  | False |  |  | madam |  |  |
|  |  |  |  |  |  |  |  |  | True | True |

|  |  |  |  |
| --- | --- | --- | --- |
| Expected Input | Expected Output | Actual Output | Test Result |
| madam  abcd  book  ab121ba  msit | True  False  False  True  False | True  False  False  True  False |  |

**Final Result**

**Expected Inputs and Outputs**

