Length of both strings should be equal cach character at a perticular index should be same

$$Str1 = "abcd" \longrightarrow Y$$
 $Str2 = "bacd" \longrightarrow Y$ 
 $Str2 = "Kunol" Kunol" Kunol"$ 

beudo code

strl, str2

- 1) check if both strings are of same len.
  - 1.1) Joob
    - 1.1.1) strl. charAt(i) != str2. charAt(i)

return false;

- 1.2) return true
- 2) return false

```
Code
```

### To C = O(str1.length())

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str1 = scn.nextLine();
    String str2 = scn.nextLine();
    boolean ans = isEqual(str1, str2);
    System.out.println(ans);
}
public static boolean isEqual(String str1, String str2) {
    if ( str1.length() == str2.length() ) {
        for (int i = 0; i < str1.length(); i++) {
            if ( str1.charAt(i) != str2.charAt(i) ) {
                return false;
        return true;
    } else {
        return false;
```

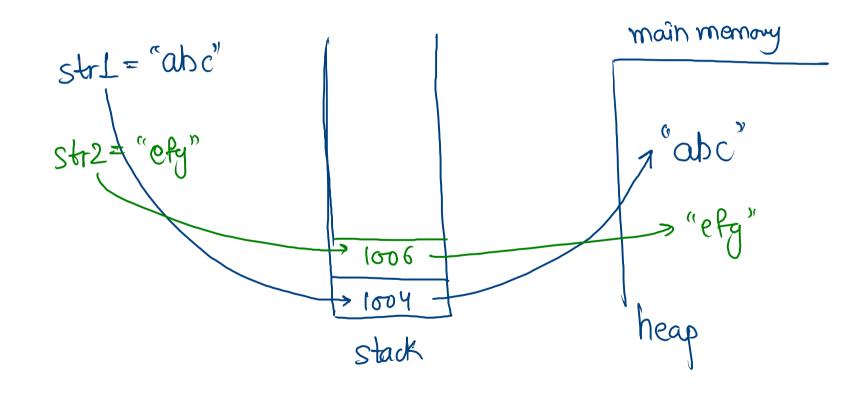
public static void main(String[] args) {
 Scanner scn = new Scanner(System.in);
 String str1 = scn.nextLine();
 String str2 = scn.nextLine();
 boolean ans = str1.equals(str2);
 Svstem.out.println(ans);
 is boolean

Mote: - while comparing Strings only use equals method instead of ==

Imp.

optional

## 2 layer architecuture



#### **Print Indices of Vowels**

```
str = "Kunalswi"

suput :- 1 3 6 8
```

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.nextLine();
    printIndexes(str);
}

public static void printIndexes(String str) {
    for (int i = 0; i < str.length(); i++) {
        char ch = str.charAt(i);
        if ( isVowel(ch) == true ) {
            System.out.print(i + " ");
        }

    public static boolean isVowel(char ch) {
        return ch == 'a' || ch == 'e' || ch == 'i' || ch == 'u' || ch == 'A' || ch == 'E' ||
    ch == 'I' || ch == '0' || ch == 'U';
    }
}</pre>
```

#### **Count Words**

if that of i== space && char at(i-1) is not space



# $T_{o} C = O(str.length())$

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
   String str = scn.nextLine();
   int ans = countWords(str);
    System.out.println(ans);
public static int countWords(String str) {
    int count = 0;
   _for (int i = 1; i < str.length(); i++) {
        if ( str.charAt(i) == ' ' && str.charAt(i - 1) != ' ' ) {
            count++;
    return count + 1;
```

#### Number is Pallindrome or not (2 pointer)

3) return true



### $T_{\circ}C = O(str.length())$

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.nextLine();
    boolean ans = isPalindrome(str);
    if ( ans ) {
        System.out.println("The number is palindrome");
    } else {
        System.out.println("The number is not a palindrome");
public static boolean isPalindrome(String str) {
    int si = 0;
    int ei = str.length() - 1;
    while ( si <= ei ) {
      if ( str.charAt(si) != str.charAt(ei) ) {
    return false;
    return true;
}
```

# Locate the Target String (9mp)

str = "geekstarsta" target = "Sta"

 $T.C = O(2^n)$ 

Sprace Spenerate all substrings

I check if any of it is equal to tranget

Cens = 4

problem

str= "geekstarsta"

target = "Sta"

(2 pointer)