```c
char str1[10];
char str2[10];
int len1, len2;
printf("Enter the 1st string :\n");
scanf("%s", str1);
printf("Enter the 2nd string: \n")
scanf("%s", str2);
len1 = strlen(str1);
len2 = strlen(str2);
if(len1 == len2)
{
    printf("Both the strings equal");
}
else
{
    if(len1 > len2)
    {
        printf("string 1 is greater
                than string 2");
    }
    else
    {
        printf("string 2 is greater than
                string 1");
    }
}
```

1st

str1 = hello   str2 = hiiii

if (len1 $\overset{5}{\uparrow}$ == len2)   len1 = 5

{ $\overset{5}{\uparrow}$ len2 = 5

      printf(" Both are equal");

}

2nd

str1 = hello   str2 = hi   len1 = 5

                                        len2 = 2

if(len1 == len2)

{ X

}

else

{

  if (len1 > len2)   5 > 2

   {

     printf(" string1 is greater than string2 ");

  }

3rd :-

str1 = hi   str2 = hello

if (len1 == len2)   len1 = 2

{   len2 = 5

  X

}

else,

  if (len1 > len2)

  {

   X

```c
    {
        X
    }
    else
    {
        Printf("string2 is greater than
                string1");
    }
}
```

```c
    char str1[10];
    char str2[10];

Printf("Enter 1st string:\n");
scanf("%s", str1);
Printf("Enter 2nd string:\n");
scanf("%s", str2);
```

```
if ( str1 [i] == str2 [i] )
        {                           if ( len1 == len2)

int i = 0; len1 = strlen( str1 );
       len2 = strlen(str2);
       if(len1 == len2)
           while ( i < len1 )
               if ( str1 [i] == str2 [i] )
                  {
                  i = i + 1;


           try      printf (" Not equal " );
               →  break;
           }  
       if ( i == len1)
           {
           printf ("equal");
       printf (" Not equal " );
```

1st :- str1 = hello   str2 = hiiii
                  ↑   ↑
          len1 = 5   len2 = 5

i = 0   if (len1 = = len2)   5 = = 5
         { ✓
            while (i < len1)   0 < 5
            { ✓

                if (str1[i] == str2[i])
                   str1[0] == str2[0]
                {   h   = =   h

                   ✓
                     i = i + 1;
                }
                if (str1[i] == str2[i])
                   (str1[1] == str2[1])
                   X   e = = i
                { X
                }
                else
                {
                    Printf(" Not equal ");
                    break;
                }
            }
         }

2nd :- str1 = hii   str2 = hii
                  ↓ |

2''''' :- str1 = hii   str2 = hii
            ↓   ↓
        len1 = 3   len2 = 3

if (len1 == len2)   3 == 3
    {✓
        while (i < len1)   ⓘ < 3
            {✓
                if (str[i] == str2[i])
                    Str1[0] == str2[0]
                        h == h
                    {
                        ✓
                        i = i + 1;
                    }
                if (str1[1] == str2[1])
                        i == i
                    {
                        ✓
                        i = i + 1;
                    }
                if (str1[2] == str2[2])
                    {   i == i
                        i = i + 1;
                    }
                                        i = 3
                if╳str1
                    else
                        {
                        }   X
            }
    }

```c
if (i == len1)      3 == 3  ✓
{
    Printf (" equal ");
}
```

3rd :-

```
str1 = hii            str2 = hiii
        ↓                     ↓
len1 = 3              len2 = 4

    if (len1 == len2)
    {
    }  ✗
    else
    {
        Printf (" Not Equal ");
    }
```