

1)write a C program to concatenate two strings without using library function.

Sample Input:

Enter String 1: welcome

Enter String 2: ksr

Sample Output:

Result: welcomeksr

solution:

```
// C Program to concatenate two
// strings without using strcat
#include <stdio.h>

int main()
{
    // Get the two Strings to be concatenated
    char str1[100]="welcome",str2[100]="welcome" ;

    // Declare a new Strings
    // to store the concatenated String
    char str3[100];

    int i = 0, j = 0;

    printf("\nFirst string: %s", str1);
    printf("\nSecond string: %s", str2);

    // Insert the first string
    // in the new string
    while (str1[i] != '\0') {
        str3[j] = str1[i];
        i++;
        j++;
    }

    // Insert the second string
    // in the new string
    i = 0;
    while (str2[i] != '\0') {
        str3[j] = str2[i];
        i++;
        j++;
    }
    str3[j] = '\0';

    // Print the concatenated string
    printf("\nConcatenated string: %s", str3);

    return 0;
}
```

```
#####  
#####
```

Get two names from the user and compare the length of the two names
without using
string library functions.

Sample Input:

Check the length of two strings:

string 1 : helloeee

string 2 : hello

Expected Output :

Strings length are not equal.

Check the length of two strings:

string 1: world

string 2: world

Expected Output : Strings length are equal.

solution:

```
// C Program to concatenate two  
// strings without using strcat  
#include <stdio.h>
```

```
int main()  
{
```

```
// Get the two Strings to be compared  
char str1[100]="helloee",str2[100]="hello" ;  
int i = 0, j = 0,count1=0,count2=0;  
printf("\nFirst string: %s", str1);  
printf("\nSecond string: %s\n", str2);
```

```
    for(int i=0;str1[i]!='\0';i++){  
        count1++;  
    }
```

```
    for(int i=0;str2[i]!='\0';i++){  
        count2++;  
    }
```

```
    if(count1==count2){  
        printf("equal");  
    }
```

```
    else{  
        printf("not equal");  
    }
```

```

    }
    return 0;
}

#####
#####

compare two strings equal or not , using without string compare function

// C Program to concatenate two
// strings without using strcat
#include <stdio.h>

int main()
{
    // Get the two Strings to be compared
    char str1[100]="hello",str2[100]="hello" ;
    int i = 0, j = 0,flag=1;

    printf("\nFirst string: %s", str1);
    printf("\nSecond string: %s\n", str2);

    //compare two string using looping here,
    //note it two initialization,two condition
    for(i=0,j=0;str1[i]!='\0' && str2[j]!='\0';i++){
        if(str1[i]!=str2[j]){
            flag=0;
        }
    }

    if(flag){
        printf("equal");
    }
    else{
        printf("not equal");
    }
    return 0;
}

#####
#####

```

Write a C program to Reverse a string without using a library function.

Sample Input:
enter a string Helloee

Sample Output:
reversed string = eeolleH

solution:

```
#include <stdio.h>
```

```
int main()
{
```

```
    // Get the String
    char str1[100]="Helloee";
    int count=0;
```

```
    //here finding length of string without string function, so make
count=0 then check string end of null, in the time increase count
    for(int i=0;str1[i]!='\0';i++){
        count++;
    }
```

```
    //printf("%d",count); // here count will be 7
    //here string will print reverse order , like
str1[6],str1[5]...str1[0]
    for(int j=count-1;j>=0;j--){
        printf("%c",str1[j]);
    }
```

```
    return 0;
```

```
}
```

```
#####
#####
```

to find whether the given string is palindrome or not without using
inbuilt functions, print "Palindrome" if the given string is a
palindrome,
else print "Not a palindrome"

Sample Input 1:

jkkj

Sample Output 1:

Palindrome

Sample Input 2:

welcome

Sample Output 2:

Not a palindrome

solution:

```
// C implementation to check if a given
// string is palindrome or not
#include <stdio.h>
#include <string.h>
```

```

int main()
{
    char str[] = { "abbba" };

    // Start from first and
    // last character of str
    int l = 0;
    int h = strlen(str) - 1;

    // Keep comparing characters
    // while they are same
    while (h > l) {
        if (str[l++] != str[h--]) {
            printf("%s is not a palindrome\n", str);
            return 0;
            // will return from here
        }
    }

    printf("%s is a palindrome\n", str);

    return 0;
}

```

```

#####
#####

```

Write a program to convert the given string1 to uppercase and string2 to lowercase without using in-built function

Sample Input:

Hello

World

Sample Output:

HELLO

world

solution:

```

#include<stdio.h>
int main(){
    char str1[]="Hello";
    char str2[]="WoRLD";

    for(int i=0;str1[i]!='\0';i++){
        if(str1[i]>= 'a' && str1[i]<='z'){
            str1[i]=str1[i]-32;
        }
    }

    /*for(int i=0;str1[i]!='\0';i++){
        printf("%c",str1[i]);
    }

```

```

    */
    //printf("%s",str1);
    for(int i=0;str2[i]!='\0';i++){
        if(str2[i]>= 'A' && str2[i]<='Z'){
            str2[i]=str2[i]+32;
        }
    }
    printf("%s\n",str1);
    printf("%s",str2);

    return 0;
}

#####
#####

```

write a code to check whether the given password is valid or not.

```

#include<stdio.h>
int main(){
    char str[]="Eabc@1234";
    int n,a=0,b=0,c=0,d=0;
    n=sizeof(str)/sizeof(str[0])-1; // (or) n=strlen(str)...we add
    <string.h> in header file
    //printf("%d",n);
    if(n>8){
        for(int i=0;i<n;i++){
            if(str[i]>='A' && str[i]<='Z'){
                a=1;
            }
            else if(str[i]>='a' && str[i]<='z'){
                b=1;
            }
            else if(str[i]>='0' && str[i]<='9' ){
                c=1;
            }
            else if((str[i]>=32 && str[i]<=47) || (str[i]>=58 &&
str[i]<=64) || (str[i]>=91 && str[i]<=96)
|| (str[i]>=123 && str[i]<=126)){
                d=1;
            }
        }

        if(a==1 && b==1 && c==1 && d==1 ){
            printf("valid");

        }

        else{
            printf("Invalid input");
        }

    }
}

```

```
    else{
        printf("Invalid input");
    }
}
```

```
#####
#####
```

check remove duplicates in given string program