Program 2

String Concatinating and String Comparison.

Algorithm for String Concatination.

1. START

2. Input String1 & String 2.

3. Use while to iterate over string 1 till end and from there add the characters of String 2 to String 1.

4. Print the String 1

5. STOP

Algorithm for String Compare

1. START

2. Input String1 & String 2.

3. Use while loop to check each element of the string1 & string2

3.1. if not same display ~~the~~ Not same

3.2. else print same

4. STOP

Algorithm for main

1. START
2. Initialize the variables.
3. Input string1 & string2.
4. Call string Concat & string Compare till exit.
5. STOP.

```c
#include <stdio.h>
void stringcat(char s1[],char s2[]){
  // concatinator
  int i=0,j=0;
  while(s1[i+1]!='\0'){
    ++i;
  }
  for(j=0; s2[j]!='\0'; ++j, ++i){
    s1[i]=s2[j];
  }
  s1[i]='\0';
  printf("Concatinated string: %s",s1);
}
void stringcom(char s1[],char s2[]){
  int i=0;
  while((s1[i]!='\0')||(s2[i]!='\0')){
    if((s1[i+1]=='\0')||(s2[i+1]=='\0')){
      printf("0 -->equal strings");
    }
    else if(s1[i]>s2[i]){
      printf("1 -->first string is greater than the second");
      break;
    }
    else if(s1[i]<s2[i]){
      printf("-1 -->first string is lesser than the second");
      break;
    }
    i++;
  }
  printf("(charcter value)\n");
}

int main(){
  //input
  int ans=1;
  printf("\nPress 1000 to exit or type in the next string you want to test\n\n");
  while(ans!=1000){
    printf("String 1: ");
    char s1[50];
    fgets(s1,50,stdin);
    printf("String 2: ");
    char s2[50];
    fgets(s2,50,stdin);
    //copy arry
    int i;
    char s3[50];
    for (i=0;s1[i]!='\0';++i){
      s3[i] = s1[i];
    }
```

```c
        s3[i] = '\0';
        //string concatinator
        stringcat(s3,s2);
        //string comparer
        stringcom(s1,s2);
        scanf("%d",&ans);
    }
}
```

Files

main.c

main.c

```c
29    i++;
30    }
31    printf("(charcter value)\n");
32  }
33
34  int main(){
35    //input
36    int ans=1;
37    printf("\nPress 1000 to exit or type in the next string you
       want to test\n\n");
38    while(ans!=1000){
39      printf("String 1: ");
40      char s1[50];
41      fgets(s1,50,stdin);
42      printf("String 2: ");
43      char s2[50];
44      fgets(s2,50,stdin);
45      //copy arry
46      int i;
47      char s3[50];
48      for (i=0;s1[i]!='\0';++i){
49        s3[i] = s1[i];
50      }
51      s3[i] = '\0';
52      //string concatinator
53      stringcat(s3,s2);
54      //string comparer
55      stringcom(s1,s2);
56      scanf("%d",&ans);
57    }
```

```
> clang-7 -pthread -lm -o main main.c
> ./main

Press 1000 to exit or type in the next string you want to test

String 1: joel
String 2: joel
Concatinated string: joeljoel
0 -->equal strings(charcter value)

nickson
String 1: String 2: joel
Concatinated string: nicksonjoel
1 -->first string is greater than the second(charcter value)

a
String 1: String 2: b
Concatinated string: ab
-1 -->first string is lesser than the second(charcter value)
b
String 1: String 2: a
Concatinated string: ba
1 -->first string is greater than the second(charcter value)


1000
>
```

Type here to search

6:13 PM
8/19/2020