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| **Ex.No.6** | **USAGE OF STRINGS** | Reg.No: URK22CS1200 |
| **3/11/22** |

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| 1.Write a program to create a menu driven approach to perform the following string functions  Length of a string  Copying a string  Comparing string  String concatenation  **Aim:**  To create a menu driven approach to perform the following string functions  Length of a string  Copying a string  Comparing string  String concatenation  **Algorithm:**  Step 1: Start the program.  Step 2: Declare the required strings and variables  Step 3: Read the inputted strings  Step 4: Use a switch case and print the appropriate responses  Step 5: Stop the program  **Program:**  include<stdio.h>  #include<string.h>  int main()  {  char s1[100],s2[100],s3[100];  int c,res;  printf("enter 1 for checking length of a string,2 for copying a string,3 for comparing strings,4 for string concatenation");  scanf("%d", &c);  switch(c) {  case 1:  printf("enter string");  scanf("%s",s1);  printf("Length of string is: %d", strlen(s1));  break;  case 2:  printf("enter string");  scanf("%s",s1);  strcpy(s2, s1);  printf("the copied string is %s", s2);  break;  case 3:  printf("enter string 1");  scanf("%s",s1);  printf("enter string 2");  scanf("%s",s2);  res = strcmp(s1,s2);  if (res==0)  printf("Strings are equal");  else  printf("Strings are unequal");  break;  case 4:  printf("enter string");  scanf("%s", s1);  printf("enter string to be concatenated");  scanf("%s", s3);  printf("%s",strcat(s1,s3));  break;  }  return 0;  }  **Output:**  **[urk22cs1200@code ~]$ gcc ex6a.c**  **[urk22cs1200@code ~]$ ./a.out**  **MENU1:Find Length of String**  **2:Find Reverse of String**  **3:Concatenate Strings**  **4:Copy String**  **5:Compare Strings**  **6:Exit**  **Enter your choice:2**  **Enter String:12345**  **Reverse String:12345**  **MENU1:Find Length of String**  **2:Find Reverse of String**  **3:Concatenate Strings**  **4:Copy String**  **5:Compare Strings**  **6:Exit**  **Enter your choice:3**  **Enter First String:pine**  **Enter Second String:apple**  **String After Concatenation:pineapple**  **MENU1:Find Length of String**  **2:Find Reverse of String**  **3:Concatenate Strings**  **4:Copy String**  **5:Compare Strings**  **6:Exit**  **Result:**  This program is executed successfully and a menu driven approach is created to perform the string functions. |

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| 2.Write a program to enter a word as input and to count the number of vowels in that word.  **Aim:**  To write a code that counts the number of vowels in a inputted word.  **Algorithm:**  Step 1: Start the program.  Step 2: Declare the required string and variables  Step 3: Read the Inputted string  Step 4: execute a relevant for loop and if statement to check for the number of vowels in thatb word  Step 5: Print the result using suitable print statements  Step 6: Stop the Program.  **Program:**  #include<stdio.h>  #include<string.h>  void main()  {  char str[100];  int i,vc=0;  printf("enter string");  scanf("%s", str);  for(i = 0; i < strlen(str); i++){  str[i] = tolower(str[i]);  if(str[i] == 'a' || str[i] == 'e' || str[i] == 'i' || str[i] == 'o' || str[i] == 'u') {  //Increments the vowel counter  vc++;  }  }  printf("the number of vowels is %d", vc);  }  **Output:**  [urk22cs1200@code ~]$ gcc ex6b.c  [urk22cs1200@code ~]$ ./a.out  Enter the string: aeiou  Total number of vowels: = 5  [urk22cs1200@code ~]$  **Result:**  This program is executed successfully and number of vowels in the inputted word is counted. |