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| **Lab Report: 02** | | **Date : 14/07/2025** |
| Name: Data Structure String Processing | | |
| **Problem 02\_01**: Write a complete C/C++ menu based program to perform the following String Processing operations.   1. Input a string 2. Find the length of the string 3. Substring a string 4. Compare two string 5. Indexing 6. Concatenation | | |
| Program:  #include<stdio.h>  #include<stdlib.h>  int Strlen(char \*str)  {  int l = 0;  while(str[l]) { l++; }  return l;  }  char \*SubString(char \*str,int st, int nofc)  {  int i=0;  char \*sub = (char \*)malloc(nofc);  if(st+nofc > Strlen(str))  {  sub = "";  }  else  {  while(nofc>0)  {  sub[i] = str[st+i];  i++;  nofc--;  }  sub[i] = '\0';  }  return sub;  }  void main()  {  char op;  int st, nofc;  char Str1[100],Str2[100];  while(1)  {  printf("\n1. Input a String\n");  printf("2. Length of the String\n");  printf("3. Display the String\n");  printf("4. Sub-string of the String\n");  printf("5. Concatenation of two String\n");  printf("0. Exit\nEnter your option : ");  op = getche();  switch(op)  {  case '1':  printf("\nEnter a line of text string:\n");  gets(Str1);  break;  case '2':  printf("\nThe length of the string is %d",Strlen(Str1));  break;  case '3':  printf("\nInputted Sting is :\n");  puts(Str1);  break;  case '4':    break;  case '5':  break;  case '0':  exit(0);  break;  }  }  } | | |
| **Output:**  If need add A4 papers | | |
| **Problem 02\_02**: Write a complete C/C++ menu based program to perform the following String Processing other operations.   1. Insert a string 2. Delete a/all string 3. Replace a/all string | | |
| **Program:**  If need add A4 papers | | |
| **Output:**  If need add A4 papers | | |