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| **ID :** | **Name :** | |
| **Lab Report: 01** | | **Date : 12/01/2025** |
| Name: Introduction of Data Structure | | |
| **Problem 01\_01**: Write a C/C++ program to display a menu with exit function to choose any operation: | | |
| **Program:**  #include<stdio.h>  #include<stdlib.h>  void main()  {  char op;  while(1)  {  printf("1. Input a String\n");  printf("2. Length of the String\n");  printf("3. Sub-string of the String\n");  printf("4. Concatenation of two String\n");  printf("0. Exit\nEnter your option : ");  op = getche();  switch(op)  {  case '1':  printf("ONE\n");  break;  case '2':  printf("Two\n");  break;  case '0':  exit(0);  break;  }  }  } | | |
| **Output:** | | |
| **Problem 01\_02**: Write a C/C++ program to read N inputted numbers randomly, where N is inputted from keyboard. | | |
| #include<stdio.h>  #include<time.h>  void main()  {  int i,n,Data[10000];  srand(time(NULL));  printf("Enter the amount of numbers: ");  scanf("%d",&n);  for(i=0;i<n;i++)  {  Data[i] = (rand() %100);  }  printf("\nThe %d Numbers are as follows:\n",n);  for(i=0;i<n;i++)  {  printf("%5d",Data[i]);  }  } | | |
| **Output:** | | |
| **Problem 01\_03**: Write a C/C++ program to extend the above program to find out the time complexity and space | | |
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| **Output:** | | |