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**COMPUTER ENGINEERING DEPARTMENT**

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**LABORATORY EXERCISE #3**
**DATA STRUCTURE AND ALGORITHM ANALYSIS LAB.**
2nd Semester S.Y. 2018 – 2019

**NAME:** _____ **SCHEDULE:** _____

**COURSE & YEAR:** _____ **DATE:** _____

**General Direction:** Create a C++ program that will satisfy the required output. Encode each of the program and illustrate the result.

## Program No.1(save as strex1)

```
#include<iostream.h>
#include<string.h>
#include<conio.h>
int main()
{   char lname[20],fname[15];
clrscr();
cout<<"What ism your first name? ";
cin>>fname;
cout<<"What is your last name? ";
cin>>lname;
cout<<"Hi"<<fname<<" "<<lname<<"!";
getch();  }
```

## Program No.2(save as strex2)

```
#include<iostream.h>
#include<string.h>
#include<conio.h>
int main()
{  char mname[20],fname[15];
clrscr();
cout<<"What is your name? ";
cin>>fname;
cout<<"Hi"<<fname<<"!"<<endl;
cout<<"What is your maiden's name and last name? ";
cin>>ws;
cin.getline(m name,0);
cout<<"So, you are <<fname<<" "<<mname<<"!";
getch();  }
```

**Program No.3(save as strex3)**

```
//This program illustrates the use of strlen
#include<stdlib.h>
#include<conio.h>
int Count(char Source[100]))
{  int L,J,Word=0,Number=0;
L=strlen(Source);
cout<<"It has "<<L<<" characters"<<endl;
for(J=0;J<=L;J++)
        if(Source[J]= =Source[J]= ='\0')
                Number++;

Return Number;
}
int main()
{
char Source[100];
int Num;
cirscr();
cout<<"Enter your message: `;
cin.getline(Source, 100);
Num=Count(Source);
Cout<<"Your message contains "<<
Getch();
}
```

**Program No.4(save as strex4)**

```
//This program illustrate the use of strcpy and strcat
#include<iostream.h>
#include<stdlib.h>
#include<conio.h>
int main()
{  const char *p1="Rainbow";
const char *p2=" doesn't end. ";
char name[100];
strcat(strcat(strcpy(name,p1),p2),"Yes! Its true.");
cout<<name;
getch();  }
```

**Program No.5(save as strex5)**

```
//This program illustrate the use of atof and atoi functions
#include<iostream.h>
#include<stdlib.h>
#include<conio.h>
int main()
{  char buffer[100];
float price;
int quantity;
cout<<"Enter price: ";
cin.get(buffer,100);
price=atof(buffer);
cout<<"Enter quantity: ";
cin.get(buffer,100);
quantity=atoi(buffer);
cout.self(ios::fixed);
cout.precision(2);
cout<<"Total Cost: "<<price*quantity;
getch();
}
```