Adamson University  
College of Engineering  
Computer Engineering Department

Data Structures & Algorithm Analysis Lab  
MW/7am-10am/CL3

Supplementary Exercise #2  
STRING

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Date

II. The Source Code

(SUPP2A)

#include<iostream.h>

#include<conio.h>

#include<stdio.h>

#include<stdlib.h>

#include<string.h>

void main()

{

clrscr();

int i;

char string[100];

cout<<" Enter a string: ";

cin.getline(string,100);

for(i = 0;i < 100; i++)

if(string[i]!='\0' && string[i]!=32)

{

string[i] = string[i] + 1;

}

if(string[i]==32)

{

string[i]=string[i];

}

cout <<"Encrypted string: " << string << endl;

getch();

}

(SUPP2B)

#include<iostream.h>  
#include<conio.h>  
#include<stdio.h>  
#include<stdlib.h>  
#include<string.h>  
void main()  
{  
 clrscr();  
char str[100];  
 int frequency[26];  
 int i,len;  
 cout<<"Enter a string: ";  
cin.getline(str,100);  
len=strlen(str);  
 for(i=0;i<26;i++)  
{ frequency[i]=0}  
for(i=0;i<len;i++)  
{  
 if(str[i]>='a'&& str[i]<='z')  
 { frequency[str[i]-97]++;}  
else if(str[i]>='A'&& str[i]<='Z')  
 {frequency[str[i]-65]++;}  
}  
else if(str[i]==' ')  
{ ++spaces;}  
else if(str[i]==',')  
{++comma;}  
else if(str[i]=='.')  
{++period;}  
}  
cout<<"Whitespaces= "<<spaces;  
cout<<" Comma= "<<comma;  
cout<<" Period= "<<period;  
 for(i=0;i<26;i++)  
{  
 if(frequency[i]!=0)  
 {  
 printf(" ’%c'=%d\n",(i+97),frequency[i]);  
 }  
}  
 getch();  
}