

Lab

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1) Ans:

Code:

```
#include<stdio.h>
int main()
{
    char
    s1[500],s2[100],s3[100],s4[100],s5[100],s6[100],s7[1
    00],s8[100];
    int
    i,j,len1=0,len3=0,len4=0,len5=0,len6=0,len7=0,len8=
    0;
    int
    length1=0,length2=0,length3=0,length4=0,length
    5=0,length6=0,length7=0,length8=0,totalstrLen=0;

    printf("Enter 1st String : ");
    gets(s1);

    printf("Enter 2st String : ");
    gets(s2);

    printf("Enter 3st String : ");
    gets(s3);
```

```
printf("Enter 4st String : ");  
gets(s4);
```

```
printf("Enter 5st String : ");  
gets(s5);
```

```
printf("Enter 6st String : ");  
gets(s6);
```

```
printf("Enter 7st String : ");  
gets(s7);
```

```
printf("Enter 8st String : ");  
gets(s8);
```

```
//Each Str len
```

```
for(i=0;s1[i]!='\0';i++){  
    length1++;  
}
```

```
for(i=0;s2[i]!='\0';i++){  
    length2++;  
}
```

```
for(i=0;s3[i]!='\0';i++){  
    length3++;  
}
```

```
for(i=0;s4[i]!='\0';i++){  
    lengthth4++;  
}
```

```
for(i=0;s5[i]!='\0';i++){  
    lengthth5++;  
}
```

```
for(i=0;s6[i]!='\0';i++){  
    lengthth6++;  
}
```

```
for(i=0;s7[i]!='\0';i++){  
    lengthth7++;  
}
```

```
for(i=0;s8[i]!='\0';i++){  
    lengthth8++;  
}
```

```
for(i=0;s1[i]!='\0';i++){  
    len1++;  
}
```

```
for(i=len1,j=0;s2[j]!='\0';i++,j++)  
{  
    s1[i]=s2[j];  
  
}  
s1[i]='\0';
```

// Third String

```
for(i=0;s1[i]!='\0';i++){  
    len3++;  
}
```

```
for(i=len3,j=0;s3[j]!='\0';i++,j++)  
{  
    s1[i]=s3[j];  
  
}  
s1[i]='\0';
```

// Fourth Length

```
for(i=0;s1[i]!='\0';i++){  
    len4++;  
}
```

```
for(i=len4,j=0;s4[j]!='\0';i++,j++)  
{  
    s1[i]=s4[j];
```

```
}  
s1[i]='\0';
```

// Five Str

```
for(i=0;s1[i]!='\0';i++){  
    len5++;  
}
```

```
for(i=len5,j=0;s5[j]!='\0';i++,j++)  
{  
    s1[i]=s5[j];
```

```
}  
s1[i]='\0';
```

// Six Str

```
for(i=0;s1[i]!='\0';i++){
```

```
    len6++;  
}  
  
for(i=len6,j=0;s6[j]!='\0';i++,j++)  
{  
    s1[i]=s6[j];  
  
}  
s1[i]='\0';
```

// Seven Str

```
for(i=0;s1[i]!='\0';i++){  
    len7++;  
}  
  
for(i=len7,j=0;s7[j]!='\0';i++,j++)  
{  
    s1[i]=s7[j];  
  
}  
s1[i]='\0';
```

// Eight Str

```
for(i=0;s1[i]!='\0';i++){  
    len8++;  
}
```

```
for(i=len8,j=0;s8[j]!='\0';i++,j++)  
{  
    s1[i]=s8[j];  
  
}  
s1[i]='\0';
```

```
for(i=0;s1[i]!='\0';i++){  
    totalstrLen++;  
}
```

```
printf("\nString 1 Length: %d\n String 2 Length:  
%d\nString 3 Length: %d\nString 4 Length:  
%d\nString 5 Length: %d\nString 6 Length:  
%d\nString 7 Length: %d\nString 8 Length:  
%d\nTotal String Length: %d\n",
```

```
length1,length2,length3,length4,length5,length  
6,length7,length8,totalstrLen);
```

```
printf("\nEach string Concatenate : ");  
puts(s1);
```

```
// Tokenization
```

```
char *word;
```

```
word=strtok(s1,">");
```

```
printf("Tokenization of final string according to '<'  
\n\n");
```

```
while(word!='\0')  
{  
    printf("%s\n",word);  
  
    word=strtok('\0',">");  
  
}
```

```
return 0;
```

```
}
```



```
"E:\Mahmud\All Code\All Code\Compiler Code\mahmud.exe"
Enter 2st String : CCTGGAATACTACCTGGCTTGACCGCTTA
Enter 3st String : >Rosalind_5959
Enter 4st String : CCATGGAATACTACCTGGCTTGACCGCC
Enter 5st String : >Rosalind_0808
Enter 6st String : CCATGGAATACTACCTGGCTTGACCGCTTAGA
Enter 7st String : >Rosalind_0809
Enter 8st String : AGCTATAG

String 1 Length: 14
String 2 Length: 30
String 3 Length: 14
String 4 Length: 29
String 5 Length: 14
String 6 Length: 33
String 7 Length: 14
String 8 Length: 8
Total String Length: 156

Each string Concatenate : >Rosalind_6404CCTGGAATACTACCTGGCTTGACCGCTTA>Rosalind_5959CCATGGAATACTACCTGGCTTGTA
CCGCC>Rosalind_0808CCATGGAATACTACCTGGCTTGACCGCTTAGA>Rosalind_0809AGCTATAG
Tokenization of final string according to '<'

Rosalind_6404CCTGGAATACTACCTGGCTTGACCGCTTA
Rosalind_5959CCATGGAATACTACCTGGCTTGACCGCC
Rosalind_0808CCATGGAATACTACCTGGCTTGACCGCTTAGA
Rosalind_0809AGCTATAG

Process returned 0 (0x0)   execution time : 184.141 s
Press any key to continue.
```

2) Ans:

```
#include<stdio.h>
#include<string.h>
int main()
{
    char s[100]="int a=b*c;";

    char *word;

    word=strtok(s,";=*/");

    while(word!='\0')
    {
        printf("%s\n",word);

        word=strtok('\0',";=*/");
    }

    return 0;
}
```

```
"E:\Mahmud\All Code\All Code\Compiler Code\mahmud.exe"
return
0
Process returned 0 (0x0)   execution time : 0.049 s
Press any key to continue.
```

```
"E:\Mahmud\All Code\All Code\Compiler Code\mahmud.exe"
int
a
b
c
Process returned 0 (0x0)   execution time : 0.031 s
Press any key to continue.
```

```
"E:\Mahmud\All Code\All Code\Compiler Code\mahmud.exe"
return
first
second
third
Process returned 0 (0x0)   execution time : 0.022 s
Press any key to continue.
```

3) Ans:

```
#include<stdio.h>
#include<string.h>
#include<stdlib.h>
```

```
void linecomment();
FILE *f1,*f2;
```

```
int main()
{
    char c,d;
```

```
f1=fopen("input.txt","r");
f2=fopen("output.txt","w");
```

```
while((c=fgetc(f1))!=EOF)
{
    if(c=='#')
    {
```

```

        linecomment();

    }
    else
    {
        fputc(c,f2);
    }

}

fclose(f1);
fclose(f2);

return 0;
}

void linecomment()
{
    char e;
    while((e=fgetc(f1))!=EOF)
    {
        if(e=='\n')
        {
            return;
        }
    }
}

```

