Strings(7-8-2025)

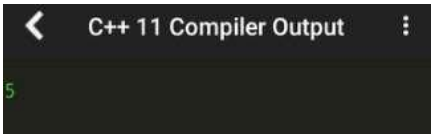
1. **Writea programto findthe lengthof a stringwithoutusingstrlen().**

Input: Get a stringas input
Process: if char isnot equalto null thencountthelength
Output: Printthe length

Code:

```
#include<stdi
o.h> int
main()
{
   int i;
   charstr1[6]="World",c
   ount=0;
   for(i=0;i<6;i++)
   {
      if(str1[i]!=

         '\0')

         count+

         +;

   }
   printf("%d",count);


   return0;
}
```

Output:



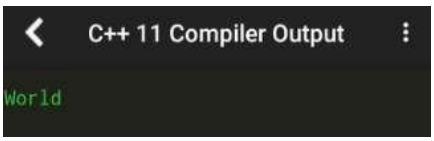
2. **Writea programto copyonestringto another.**

Input: Get a stringas
input Process: Equate
two strings Output:
Copiedstring

Code:

```
#include<stdi
o.h> int
main()
{
   int i;
   charstr1[6]="World";
   charstr2[6];
   for(i=0;i<6;i++)
   {
      str2[i]=str1[i];

   }
   printf("%s",str2);


   return0;
}
```

Output:



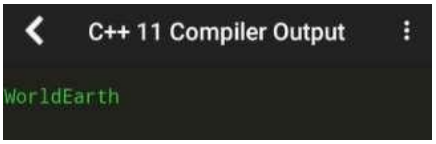
3. **Writea programto concatenatetwo strings.**

Input: Get two stringsas input
Process: Copyboththe stringto string3
Output: Displaythestring3

Code:

```
#include<stdi
o.h> int
main()
{
   int i;
   charstr1[6]="W
   orld";
   charstr2[6]="E
   arth";
   charstr3[12];
   for(i=0;i<6;i++)
   {
      str3[i]=str1[i];

   }
   printf("%s",str1);
   for(i=0;i<6;i++);
   {
      str3[i]=str2[i];
   }
   printf("%s",str2);


   return0;
}
```

Output:


C++ 11 Compiler Output
WorldEarth

4. **Writea programto compare two strings.**

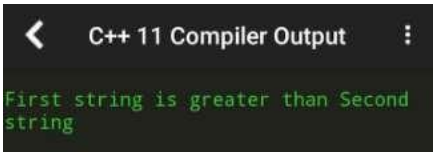
Input: Get two
strings Process:
Compare the length
Output: Printwhich
isgreater

Code:

```
#include<stdio.h>

int main ()
{
        intcount1= 0, count2= 0,
        flag= 0, i;
        charstring1[30],string2[30];
while(string1[count1]
                != '\0')
        count1++;

        while(string2[count2]!= '\0')
                count2++;

        i = 0;

        while(string1[i]== string2[i]&& string1[i]!= '\0')
        {
                i ++;
        }

        if (string1[i]> string2[i])
                printf("Firststringis greaterthan
        Second string\n"); elseif (string1[i]<
        string2[i])
                printf("Secondstringis greaterthan Firststring\n");
        else
```

```
            printf("Both stringsare EQUAL\n");

        return0;
}
```

Output:


C++ 11 Compiler Output
First string is greater than Second string

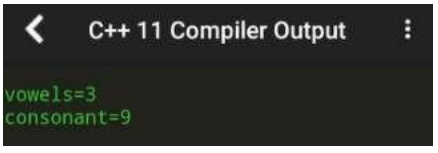
5. **Writea programto countvowels andconsonantsin a string.**

Input: Get a stringas input
Process:Countthe no of vowels and consonants
Output: Printthe

count Code:

```
#include<stdi
o.h> int
main()
{
   int i;
   charstr1[12]="Worldearth",vcount=0,ccount=0;
   for(i=0;i<12;i++)
   {
    if(str1[i]=='a'|str1[i]=='e'|str1[i]=='i'|str1[i]=='o'|str1[i]=='u')
    vcount
    ++;
    else
    ccount
    ++;

   }
   printf("vowels=%d\nconsonant=%d",vcount,ccount);



   return0;
}
```

Output:



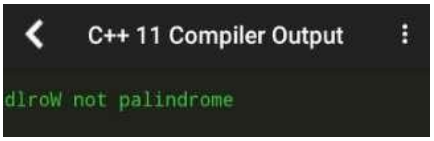
6. **Writea programto convertlowercaseto uppercaseand viceversa.**
7. **Writea programto checkif a stringispalindrome.**

Input: Get a stringas input
Process: Reversethe stringto

checkit'spalindrome Code:

```
#include<stdi
o.h> int
main()
{
   int i;
   charstr1[6]="World",fl
   ag=0; charstr2[6];

   for(i=0;i<6;i++)
   {
      str2[i]=str1[4-i];
   }
   for(i=0;i<6;i++)
   {
   printf("%c",str2[i]);
   }
   if(str1[i]!=st
   r2[i])
   flag=1;
   if(flag==0)
   printf("palindrome\n");
   else
   printf(" not palindrome\n");

}
```

Output:


C++ 11 Compiler Output
dlroW not palindrome

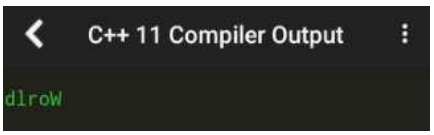
8. **Writea programto reversea string.**

Input: Get a stringas
input Process:
Reversethe string
Output:
Displaythereversedstring

Code:

```
#include<stdi
o.h> int
main()
{
   int i;
   charstr1[6]="World";
   charstr2[6];

   for(i=0;i<6;i++)
   {
      str2[i]=str1[4-i];
   }
   for(i=0;i<6;i++)
   {
   printf("%c",str2[i]);
   }
}
```

Output:



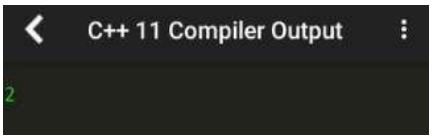
9. **Writea programto count words ina string.**

Input: Get a stringas input
Process: If stringnot equalto spacecount Output: Printthe no of words

Code:

```
#include<stdi
o.h> int
main()
{
   int i;
   charstr1[12]="Worldearth",count
   =0; for(i=0;i<12;i++)
   {
      if(str1[i]==' ')
      count++;
   }
   printf("%d",count+1);
}
```

Output:



10. **Writea programto find thefrequencyof eachcharacterina string.**

Input: Get a stringas input
Process: Findthe occurrenceof the
eachcharacterina string Output: Printthe
repetitionnumber

Code:

```
 #include<stdio.
h> int main()
{
   inta[5]={3,4,5,4,7};
   intb[5]
   ;
   b[0]=a[
   0];
   int flag=0,i,j,k=1;
   for(i=0;i<5;i++)
   {
      flag=0;
      for(j=0;j<6;j++)
      {
         if(a[i]==b[j])
         {
            flag=1;break;
         }
      }
      if(flag==0)
      {
         b[k]=a
         [i];
         k++;
      }
   }
   intcount=
   0;
   for(i=0;i<k;i
```

```
++)
{
   count=0;
   for(j=0;j<5;j++
   )
   {
      if(b[i]==a[j])
      count++;
   }
   printf("%d-%d\n",b[i],count);
}
```

}

Output: