1. Write a function to calculate length of the string

Ans #include<stdio.h>

int len(char b[])

{

int i;

for(i=0;b[i];i++);

return i;

}

int main()

{

char a[30];

printf("Enter a string: ");

scanf("%s",&a);

int i;

printf("Length of String is %d",len(a));

return 0;

}

2. Write a function to reverse a string.

Ans #include<stdio.h>

#include<string.h>

void rev(char b[])

{

int i,j=strlen(b)-1;

char t;

while(i<=j)

{

t=b[i];

b[i]=b[j];

b[j]=t;

i++;

j--;

}

printf("%s",b);

}

int main()

{

char a[30];

printf("Enter a String: ");

fgets(a,30,stdin);

rev(a);

return 0;

}

3. Write a function to compare two strings.

Ans

4. Write a function to transform string into uppercase

Ans#include<stdio.h>

void upp(char b[])

{

int i;

for(i=0;b[i];i++)

{

if(b[i]>='a'&& b[i]<='z')

b[i]=b[i]-32;

}

printf("%s",b);

}

int main()

{

char a[30];

printf("Enter a String: ");

fgets(a,30,stdin);

upp(a);

return 0;

}

5. Write a function to transform a string into lowercase

Ans #include<stdio.h>

void low(char b[])

{

int i;

for(i=0;b[i];i++)

{

if(b[i]>='A'&& b[i]<='Z')

b[i]=b[i]+32;

}

printf("%s",b);

}

int main()

{

char a[30];

printf("Enter a String: ");

fgets(a,30,stdin);

low(a);

return 0;

}

6. Write a function to check whether a given string is an alphanumeric string or not.

Ans #include<stdio.h>

void alnu(char b[])

{

int i,x=0,y=0;

for(i=0;b[i];i++)

{

if(b[i]>='a'&& b[i]<='z' || b[i]>='A' && b[i]<='Z')

x=1;

if(b[i]>='0'&& b[i]<='9')

y=1;

}

if(x\*y !=0)

printf("Alphanumaric");

else

printf(" Not Alphanumaric");

}

int main()

{

char a[30];

int g=0;

printf("Enter a String: ");

fgets(a,30,stdin);

alnu(a);

return 0;

}

7. Write a function to check whether a given string is palindrome or not.

Ans #include<stdio.h>

#include<string.h>

void pall(char b[],int c)

{

int i,j;

j=c;

for(i=0;i<j/2;i++)

{

if(b[i]!= b[j-1-i])

{

printf("Not a palindrome");

break;

}

}

if(i==j/2)

printf("Palindrome");

}

int main()

{

char a[30];

printf("Enter a String: ");

fgets(a,30,stdin);

int x=strlen(a)-1;

pall(a,x);

return 0;

}

8. Write a function to count words in a given string

Ans #include<stdio.h>

void word(char b[])

{

int i,count=0;

for(i=0;b[i];i++)

{

if(b[i]==' ' && b[i+1]!= ' ')

count++;

}

printf("Number of words %d",count+1);

}

int main()

{

char a[100];

printf("Enter a String: ");

fgets(a,100,stdin);

word(a);

return 0;

}

9. Write a function to reverse a string word wise. (For example if the given string is “Mysirg Education Services” then the resulting string should be “Services Education Mysirg” )

Ans

10. Write a function to find the repeated character in a given string

Ans #include<stdio.h>

void repeat(char b[])

{

int i,freq[150]={0};

for(i=0;b[i];i++)

{

freq[b[i]]++;

}

for(i=0;i<=149;i++)

{

if(freq[i]>1)

printf("%c\n",i);

}

return 0;

}

int main()

{

char a[30];

printf("Enter a String: ");

fgets(a,30,stdin);

repeat(a);

return 0;

}