Assignment 18

① int calculatelength(char str[])
{
int i;
for(i=0; str[i]; i++);
return i;
}

② void reverseString(char s[], int length)
{
int i, n, temp, d, k=0;
n=length-1;
for(i=0; i<=length/2; i++)
{
d=n-k;
if(d<i)
break;
if(s[i]==' ')
continue;
if(str[d]==' ')
{
k++;
d=n-k;
}
if(d<i)
break;
temp=str[i];
s[i]=s[d];
s[d]=temp;
k++;
}
}

④
```
void upperCase(char str[])
 {
int i;
for(i=0; str[i]; i++)
  {
if(str[i]>='a' && str[i]<='z')
    str[i]= str[i]-32;

  }

printf("%s", str);
}
```

⑤
```
Void lowerCase(char str[])
  {
 int i;
for(i=0; str[i]; i++)
  {
if(str[i]>='A' && str[i]<='Z')
   str[i] = str[i]+32;
  }
printf("%s", str);

 }
```

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⑥
```
void alphaNumeric( char str[])
  {
int i, count=0;
for( i=0; str[i]; i++)
   {
if( str[i]>='a' && str[i]<='z' || str[i]>='A' && str[i]<='Z' ||
 str[i]>='0' && str[i]<='9')
      count++;
   }
if(count>1)
 printf("String is alphanumeric\n");
else
 printf("String is not alphanumeric\n");
  }
```

⑦
```
Void checkPalindrome( char S[], int length)
  {
 char b[length];
 int i, j=0, count=0;
for( i=length-1; i>=0; j++, i--)
 char b[j] = charS[i];

for( i=0; S[i]; i++)
   {
if( S[i] != b[i])
      {
       count=1;
       break;
      }
if (count==1)
 printf("String is not palindrome\n");
   else printf("String is palindrome\n"); }
```

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(8) int countWords(char str[])
{
int count=0, i;
for(i=0; str[i]; i++)
{
if(str[i]==' ')
count++;
}
return(count+1);
}

(9) void ReverseWordWise(char str[])
{

int count=0, i, length, k=0, j=0;
for(i=0; str[i]; i++)
{
if(str[i]==' ')
count++;
}
for(i=0; str[i]; i++)
{
length=i;
char s[length];
int a[count+1];

for(i=1; i<=count; i++)
{
for(; str[j]; j++)

```
if(str[j]==' ')
{
a[i]=j;
break;
}
j++;
}
a[0]=-1;
for(j=count ; j>=0 ; j--)
{
for(i=a[j]+1 ; str[i]||i<a[j+1] ; i++)
{
s[k]=str[i];
k++;
}
k++;
}
for(i=0; s[i]; i++)
str[i]=s[i];
printf("String Reversed According to Word wise\n");
printf("%s",str);
}
```

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(3)
```
#include <stdio.h>
int main()
{
int i;
char str1[100], str2[100];
printf("Enter 2 strings\n");
fgets(str1, 100, stdin);
fgets(str2, 100, stdin);
printf("%s\n", str1);
printf("%s\n", str2);

for(i=0; str1[i]&& str2[i]; i++)
    {
if(str1[i] < str2[i])
    {
    printf("String is in Alphabetical Order");
        break;
    }

if(str1[i] > str2[i])
    {
printf("String is in Alphabetical Order");
    break;
    }

}if(str1[i] == 0 && str2[i] == 0)
printf("String is same");
    return 0;
}
```