Assignment 11

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//Q1 11assignment
#include<stdio.h>
#include<string.h>
void main(){

	char str[50];
	printf("Enter the string:");
	scanf("%s",&str);

	printf("\nstring :%s",str);

	//before scaning char clean buffer
	fflush(stdin);

	char ch;
	printf("\nEnter the character wants to search:");
	scanf("%c",&ch);

	int len=strlen(str);
	for(int i=0;i<len;i++){
		if(str[i]==ch){
			printf("\nch :%c is found at index :%d\n",ch,i);
		}
	}//end of for loop

}

#include<stdio.h>
#include<string.h>
void main(){
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	char str[40];
	printf("Enter the string:");
	scanf("%s",str);

	for(int i=0;i<strlen(str);i++){
		if(str[i]=='a'){
			str[i]='$';
		}
	}

	printf("string after replace a with 'a with '$':%s ",str);
}

//Q3
#include<stdio.h>
#include<string.h>
void main(){
	char str1[]="prachiti";
	int len=strlen(str1);
	//printf("len% d",len);
	char str2[len];

	printf("\nOld string:%s\n",str1);

	int i;
	for(i=0;str1[i]!='\0';i++){

				if(i==0){
					str2[i]=str1[len-1];
					0	7
				}else{
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```
                                        if(i==(len-1)){
                                                str2[i]=str1[0];
                                                7     0

                                        }
                                        else{
                                                str2[i]=str1[i];
                                        }
                                }
        }//end for loop
        str2[i]='\0'; //make it string without this it is char arry
        printf("New string:%s\n",str2);
}

//Q3WAP to Remove the nth Index Character from a Non-Empty String
#include<stdio.h>
#include<string.h>
void main(){
        char str[]="prachiti";

        int n;
        printf("Enter the  n :");
        scanf("%d",&n);

        for(int i=0;i<strlen(str);i++){
                if(i>=n){
                        str[i]=str[i+1];
                }
        }

        printf("after remove %d index :%s",n,str);
```

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}
//#qWAP to Remove the nth Index Character from a Non-Empty String

#include<stdio.h>
#include<string.h>
void main(){

	char str[]="prachiti";

	char ch;
	printf("Enter the character wants to remove:");
	scanf("%c",&ch);

	for(int i=0;i<strlen(str);i++){

		if(str[i]==ch){
			//if ch got ==>start shifting
			int j=i;

				for(;j<strlen(str);j++){
					str[j]=str[j+1];
				}
		}
	}//end for

	printf("After removing the character:%s",str);
}

//Q4
#include<stdio.h>
#include<string.h>
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void main(){
	char str1[]="prachiti";
	int len=strlen(str1);
	//printf("len% d",len);
	char str2[len];

	printf("\nOld string:%s\n",str1);

	int i;
	for(i=0;str1[i]!='\0';i++){

				if(i==0){
					str2[i]=str1[len-1];
					0	7
				}else{
					if(i==(len-1)){
						str2[i]=str1[0];
						7	0

					}
					else{
						str2[i]=str1[i];
					}
				}
	}//end for loop
	str2[i]='\0'; //make it string without this it is char arry
	printf("New string:%s\n",str2);
}

//5. WAP to Count the Number of Vowels in a String
#include<stdio.h>
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#include<string.h>
void main(){

	char str[]="prachitI";
	int vowels=0;
	int cons=0;
	for(int i=0;i<strlen(str);i++){

		if(str[i]=='a'||str[i]=='A'||str[i]=='e'||str[i]=='E'
		||	str[i]=='i'||str[i]=='I'||str[i]=='o'||str[i]=='O'||str[i]=='u'||str[i]=='U')
			{
				vowels++;
			}
		else{
			if(str[i]>='A'&&str[i]<='Z' || str[i]>='a'&& str[i]<='z'){
				cons++;
			}
		}
	}//end of for

	printf("Vowels:%d\n\n",vowels);
	printf("cons:%d",cons);
}
//Q7. WAP to Remove the Characters of Odd Index Values in a String
#include<stdio.h>
#include<string.h>
void  main(){
	char str[]="prachiti";

	//odd index
	for(int i=0;i<strlen(str);i++){
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                if(i%2!=0){

                        str[i]=str[i+1];
                }
        }

        printf("\n\nodd index remove:%s",str);
}

//8. WAP to Calculate the Number of Words Present in a String
#include<stdio.h>
#include<string.h>
void main(){
        char str[]="This is string count";
        //printf("str:%s",str);
        int count=1;
        for(int i=0;i<strlen(str);i++){

                //to handle the  initail  spce
                while(1) {
                                if(str[i]==' '){
                                        i++;
                                }else{
                                                break;
                                        }

                }//end of while

                //if there are  spaces then now our i is on the index of 1st word

                if(str[i]==' '){
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                        //check for the index after space
                        if(str[i+1]>='A' && str[i+1]<='Z' || str[i+1]>='a' && str[i+1]<='z'){
                                                count++;
                        }
                }


        }//end for
        printf("count :%d",count);




}

/*
int count=1;
                int i=0;
                while(1){
                        if(str[i]==' '){
                                i++
                        }else{
                                break;
                        }
                }
*/


//my logic
/*

        int count=0;
```

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	int i;
	for(i=0;i<=strlen(str);i++){
		if(str[i]==' '||str[i]=='\0'){
			printf("str:%c\n",str[i]);
			count++;
		}

	}

	printf("number of words are :%d",count);
*/
//WAP to Take in Two Strings and Display the Larger String without Using Built-in Functions

#include<stdio.h>
#include<string.h>
void main(){

	char str1[10];
	char str2[10];

	printf("Enter str1:");
	scanf("%s",str1);

	printf("Enter str2:");
	scanf("%s",str2);



	int count_1=0,count_2=0;
	for(int i=0;str1[i]!='\0';i++){
		count_1++;
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        }

        for(int j=0;str2[j]!='\0';j++){
                count_2++;
        }

        if(count_1>count_2){
                printf("larger string:%s",str1);
        }
        else{
                if(count_2>count_1)
                   printf("larger string:%s",str2);

                else
                {
                                                if(count_1==count_2){
                                        printf("same length!!");
                                        }
                }

        }


}
//WAP to Take in Two Strings and Display the Larger String without Using Built-in Functions

#include<stdio.h>
#include<string.h>
void main(){

        char str1[10];
```

```
char str2[10];

printf("Enter str1:");
scanf("%s",str1);

printf("Enter str2:");
scanf("%s",str2);



int count_1=0,count_2=0;
for(int i=0;str1[i]!='\0';i++){
        count_1++;
}

for(int j=0;str2[j]!='\0';j++){
        count_2++;
}

if(count_1>count_2){
        printf("larger string:%s",str1);
}
else{
        if(count_2>count_1)
           printf("larger string:%s",str2);

        else
        {
                                        if(count_1==count_2){
                                printf("same length!!");
                                }
```

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                }

            }


}
```