```
// Write a program to scan string from user then scan a single character
// and search it in a accepted string.
#include<stdio.h>
#include<string.h>
int main(){
  char str[100], ch;
  printf("Enter a string: ");
  scanf("%s", str);
  printf("Enter a character to search: ");
  scanf(" %c", &ch);
  char *pos = strchr(str, ch);
  if (pos) {
     printf("Character '%c' found at position %ld\n", ch, pos-str + 1);
  } else {
     printf("Character '%c' not found in the string.\n", ch);
  }
  return 0;
}
```

}

```
// WAP Replace all Occurrences of 'a' with $ in a String
#include<stdio.h>
#include<string.h>
int main(){
  char str[100], ch,replace;
  printf("Enter a string: ");
  scanf("%s", str);
  printf("Enter a character to search: ");
  scanf(" %c", &ch);
  printf("Enter a replacemet character: ");
  scanf(" %c", &replace);
  char *pos = strchr(str, ch);
  if (pos) {
    *pos=replace;
    printf("Updated string: %s\n", str);
  } else {
    printf("Character '%c' not found in the string.\n", ch);
  }
  return 0;
```

```
// WAP to Remove the nth Index Character from a Non-Empty String
```

```
#include<stdio.h>
#include<string.h>
int main() {
  char str[100];
  int n, len;
  printf("Enter a string: ");
  scanf("%s", str);
  printf("Enter the index to remove: ");
  scanf("%d", &n);
  len = strlen(str);
  if (n < 0 | | n >= len) {
    printf("Invalid index!\n");
  } else {
    memmove(\&str[n], \&str[n + 1], len - n);
    printf("Updated string: %s\n", str);
  }
  return 0;
}
```

```
Q4
// WAP to Form a New String where the First Character and the Last Character have
// been Exchanged
#include<stdio.h>
#include<string.h>
int main(){
  char str[100];
  int n;
  printf("Enter a string: ");
  scanf("%s", str);
  n=strlen(str)-1;
  if(n>1){
    char temp=str[0];
    str[0]=str[n];
    str[n]=temp;
  }
  printf("Updated string %s",str);
  return 0;
}
```

```
// WAP to Count the Number of Vowels in a String
#include<stdio.h>
#include<string.h>

int main(){
    char str[100];
    int count=0;

    printf("Enter a string: ");
    scanf("%s", str);

for(int i=0;str[i]!='\0';i++){
    char ch = tolower(str[i]);
    if(strchr("aeiou",ch))
    count++;
    }
    printf("Number of Vowels in a String : %d",count);
}
```

```
// WAP to Take in a String and Replace Every Blank Space with special symbol.
#include<stdio.h>
#include<string.h>
int main(){
  char str[100],symbol;
  printf("Enter a string: ");
  scanf("%[^\n]", str);
  printf("Enter symbol u want add: ");
  scanf(" %c", &symbol);
  for(int i=0;i<strlen(str);i++){</pre>
     if(str[i]==' '){
       str[i]=symbol;
     }
  }
  printf("Sentense after adding symbol %s",str);
}
```

```
// WAP to Remove the Characters of Odd Index Values in a String
```

```
#include <stdio.h>
#include <string.h>
int main() {
  char str[100], result[100];
  int j = 0;
  printf("Enter a string: ");
  scanf("%s", str);
  for (int i = 0; str[i] != '\0'; i++) {
    if (i % 2 == 0) {
       result[j++] = str[i];
    }
  }
  result[j] = '\0';
  printf("Updated string: \%s\n", result);\\
  return 0;
}
```

```
// WAP to Calculate the Number of Words Present in a String
```

```
#include <stdio.h>

int main() {
    char str[200];
    int count = 1;

printf("Enter a string: ");
    scanf(" %[^\n]", str);

for (int i = 0; str[i] != '\0'; i++) {
    if (str[i] == '' && str[i + 1] != '' && str[i + 1] != '\0') {
        count++;
    }
}

printf("Number of words: %d\n", count);
    return 0;
}
```

```
// WAP to Take in Two Strings and Display the Larger String without Using Built-in
// Functions
#include <stdio.h>
int string_length(char str[]) {
  int len = 0;
  while (str[len] != '\0') {
     len++;
  }
  return len;
}
int main() {
  char str1[100], str2[100];
  printf("Enter first string: ");
  scanf("%s", str1);
  printf("Enter second string: ");
  scanf("%s", str2);
  if (string_length(str1) > string_length(str2)) {
     printf("Larger string: %s\n", str1);
  } else {
     printf("Larger string: %s\n", str2);
  }
  return 0;
}
```

// Write a program to check the string is palindrome or not.

```
#include <stdio.h>
#include <string.h>
int main() {
  char str[100], rev[100];
  int len, i, j;
  printf("Enter a string: ");
  scanf("%s", str);
  len = strlen(str);
  for (i = len - 1, j = 0; i >= 0; i--, j++) {
     rev[j] = str[i];
  }
  rev[j] = '\0';
  if (strcmp(str, rev) == 0) {
     printf("The string is a palindrome.\n");
  } else {
     printf("The string is not a palindrome.\n");
  }
  return 0;
}
```