Solution

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| 1. C Program to count the number of Uppercase and Lowercase Letters |
| int main() {     int upper = 0, lower = 0;     char ch[80];     int i;       printf("\nEnter The String : ");     gets(ch);       i = 0;     while (ch[i] != '') {        if (ch[i] >= 'A' && ch[i] <= 'Z')           upper++;        if (ch[i] >= 'a' && ch[i] <= 'z')           lower++;        i++;     }       printf("\nUppercase Letters : %d", upper);     printf("\nLowercase Letters : %d", lower);       return (0);  } |

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| 1. Remove Characters in a String Except Alphabets |
| int main() {     int upper = 0, lower = 0;     char ch[80];     int i;       printf("\nEnter The String : ");     gets(ch);       i = 0;     while (ch[i] != '') {        if (ch[i] >= 'A' && ch[i] <= 'Z')           upper++;        if (ch[i] >= 'a' && ch[i] <= 'z')           lower++;        i++;     }       printf("\nUppercase Letters : %d", upper);     printf("\nLowercase Letters : %d", lower);       return (0);  } |
| 1. Take a string input and find out the frequency of characters. |
| int main()  {  char a[100];  int i,j,lena=0;  gets(a);  while(a[lena]!='\0')  {  lena++;  }  for(i=0;i<lena;i++)  { int cnt=0;  for(j=0;j<lena;j++)  {  if(a[i]==a[j])  {  cnt++;  if(i>j)  {  break;  }  }  }  if(i<j)  printf("%c %d\n",a[i],cnt);  }  return 0;  } |

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| Str Reversal |
| #include<stdio.h>  #include<string.h>    int main() {  char str[100], temp;  int i, j = 0;    printf("\nEnter the string :");  gets(str);    i = 0;  j = strlen(str) - 1;    while (i < j) {  temp = str[i];  str[i] = str[j];  str[j] = temp;  i++;  j--;  }    printf("\nReverse string is :%s", str);  return (0);  } |

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| 6. Swap funciton |
| void swap(int \* a, int \* b)  {  int temp = \*a;  \*b = \*a;  \*a = temp;  } |

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| 7. C program to eliminate/remove all vowels from a string |
| char isVowel(char ch)  {  if( ch=='A' || ch=='a' ||  ch=='E' || ch=='e' ||  ch=='I' || ch=='i' ||  ch=='O' || ch=='o' ||  ch=='U' || ch=='u')  return 0;  else  return 1;  }  void eliminateVowels(char \*buf)  {  int i=0,j=0;    while(buf[i]!='\0')  {  if(isVowel(buf[i])==0)  {  //shift other character to the left  for(j=i; buf[j]!='\0'; j++)  buf[j]=buf[j+1];  }  else  i++;  }    } |

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| 8. Write a C Program to Reverse Letter in Each Word of the Entered String |
| #include<stdio.h>  #include<conio.h>  #include<string.h>    void main() {  char msg[] = "Welcome to Programming World";  char str[10];    int i = 0, j = 0;  clrscr();  while (msg[i] != '\0') {  if (msg[i] != ' ') {  str[j] = msg[i];  j++;  } else {  str[j] = '\0';  printf("%s", strrev(str));  printf(" ");  j = 0;  }  i++;  }    str[j] = '\0';  printf("%s", strrev(str));    getch();  } |
| 8. Write a C Program to Reverse Letter in Each Word of the Entered String |
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| 10. C Program to Replace Lowercase Characters by Uppercase & Vice-Versa |
| void main()  {  char sentence[100];  int count, ch, i;    printf("Enter a sentence \n");  for (i = 0;(sentence[i] = getchar()) != '\n'; i++)  {  ;  }  sentence[i] = '\0';  /\* shows the number of chars accepted in a sentence \*/  count = i;  printf("The given sentence is : %s", sentence);  printf("\n Case changed sentence is: ");  for (i = 0; i < count; i++)  {  ch = islower(sentence[i])? toupper(sentence[i]) :  tolower(sentence[i]);  putchar(ch);  }  } |
| 11. C program to print indexes of a particular character in a string |
| int main()  {  char str[30],ch;  int ind[10],loop,j;    printf("Enter string: ");  scanf("%[^\n]s",str);    printf("Enter character: ");  getchar();  ch=getchar();    j=0;  for(loop=0; str[loop]!='\0'; loop++)  {  if(str[loop]==ch)  ind[j++]=loop;  }    printf("Input string is: %s\n",str);  printf("Indexes: ");  for(loop=0; loop<j; loop++)  printf("%d \t",ind[loop]);  return 0;  } |

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| 12. C program to print all VOWEL and CONSONANT characters separately. |
| int main()  {  char text[100];  int i;    printf("Enter any string: ");  gets(text);    printf("String is: ");  for(i=0;text[i]!='\0';i++)  {  printf("%c",text[i]);  }  printf("\n");    printf("VOWEL Characters are: ");  for(i=0;text[i]!='\0';i++)  {  if(text[i]=='A' || text[i]=='a' || text[i]=='E' || text[i]=='e' || text[i]=='I' || text[i]=='i' || text[i]=='O' || text[i]=='o' || text[i]=='U' || text[i]=='u')  printf("%c",text[i]);  }  printf("\n");    printf("CONSONANT Characters are: ");  for(i=0;text[i]!='\0';i++)  {  if(!(text[i]=='A' || text[i]=='a' || text[i]=='E' || text[i]=='e' || text[i]=='I' || text[i]=='i' || text[i]=='O' || text[i]=='o' || text[i]=='U' || text[i]=='u'))  printf("%c",text[i]);  }  printf("\n");    return 0;  } |