Assignment-17 Solutions

Q-1

Ans

// program to calculate the length of string

#include<stdio.h>

#include<string.h>

int main()

{

char str[20];

int i=0,count=0;

printf("Enter any state name\n");

gets(str);

while(str[i]!='\0')

{

i++;

count++;

}

printf(" Length of string=%d",count);

return 0;

}

Q-2

Ans

// Program to count occurance of character in a given string

#include<stdio.h>

#include<string.h>

int main()

{

char a[]= "Pradeep";

char b= { 'e' };

int i=0;

int count =0;

while(a[i]!='\0')

{

i++;

if(a[i]==b)

count++;

}

printf("%d",count);

return 0;

}

Q-3

Ans

// Program to count vowels in a string

#include<string.h>

#include<stdio.h>

int main()

{

char a[]= "Pradeep";

int count=0;

int i=0;

while(a[i]!='\0')

{

i++;

if((a[i]=='A')||(a[i]=='E')||(a[i]=='I')||(a[i]=='O')||(a[i]=='U')||

(a[i]=='a')||(a[i]=='e')||(a[i]=='i')||(a[i]=='o')||(a[i]=='u'))

count++;

}

printf("%d",count);

return 0;

}

Q-4

Ans

// Program to convert lower case into uppercase

#include<stdio.h>

#include<string.h>

int main()

{

char a[]= "sandeep";

int count=0;

int i=0;

while(a[i]!='\0')

{

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

{

a[i]=a[i]-32;

}

i++;

}

printf("%s",a);

return 0;

}

Q-5

Ans

// Program to convert lower case into lowercase

#include<stdio.h>

#include<string.h>

int main()

{

char a[]= "Sandeep";

int i=0;

int count=0;

while(a[i]!='\0')

{

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

{

a[i]=a[i]+32;

}

i++;

}

printf("%s",a);

return 0;

}

Q-6

Ans

// Program to reverse a given string

#include<stdio.h>

#include<string.h>

int main()

{

char a[]="PRADEEP";

int temp;

int i=0,j= strlen(a)-1;

while(i<=j)

{

temp = a[i];

a[i] = a[j];

a[j] = temp;

i++;

j--;

}

printf("%s",a);

return 0;

}

Q-7

Ans

// Program to count total number of alphabets, digis and special characters in a string

#include<string.h>

#include<stdio.h>

int main()

{

char a[]= "Ravi12@";

int alpha=0, digit=0, special=0;

int i;

for(i=0;a[i]!='\0';i++)

{

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

alpha++;

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

digit++;

else

special++;

}

printf("\n%d",alpha);

printf("\n%d",digit);

printf("\n%d",special);

return 0;

}

Q-8

Ans

// Program to copy one string into other string

#include<stdio.h>

#include<string.h>

int main()

{

char a[20];

char b[20];

int i;

printf("Enter any string\n");

gets(a);

for(i=0;a[i]!='\0';i++)

{

b[i]=a[i];

}

b[i]='\0';

printf("String 2 in string 1=%s",b);

return 0;

}

Q-9

Ans

// Program to sort a string in ascending order

#include<stdio.h>

#include<string.h>

int main()

{

char str[5][10],s[10];

int i,r,round;

printf("Enter 5 names\n");

for(i=0;i<=4;i++)

gets(str[i]);

for(round=1;round<=4;round++)

{

for(i=0;i<=4-round;i++)

{

r=strcmp(str[i],str[i+1]);

{

if(r>0)

strcpy(s,str[i]);

strcpy(str[i],str[i+1]);

strcpy(str[i+1],s);

}

}

}

printf("\nString in dictionary order\n");

for(i=0;i<=4;i++)

puts(str[i]);

return 0;

}

Q-10

Ans

// Program to sort a string in ascending order

#include<stdio.h>

#include<string.h>

int main()

{

char a[]= "PRADEEP";

int Freq[150]= {0};

int i=0;

while(a[i]!='\0')

{

Freq[a[i]]++;

i++;

}

for(i=0;i<150;i++)

{

if(Freq[i]!=0)

printf("%c==>%d\n",i,Freq[i]);

}

return 0;

}