STRINGS

8|02|17

Collection of characters

```
char str[20] = "Delhi";
char str[20] = {'D', 'e', 'l', 'h', 'i', '\0'};
```

\t \a

Q. WAP to input string character by character (by using %c format specifier)

```
void main()
{
 char str[20], c,
 int i=0;
 printf ("Enter string\n");
 do
 {
    scanf ("%c", &str[i]);   |  ~~getchar (str[i])~~
    i++ ;                    |  str[i] = getchar();
 } while ( str[i-1]! = '\n');

  str[i-1] = '\0';
  i = 0;
 while (str[i]! = '\0')
 {
    printf("%c", str[i]);
    i++;
 }
getch();
}
```

Q. WAP to input string using %s format specifier or a single string.

```
void main()
{
   char str[20];
   printf ("Enter string");
   scanf ("%s", str);
   printf ("%s", str);
            getch ();
  }
```

#include<string.h> - for turbo C

Q. WAP to input string and print it

```
void main()
{
  char str[20];
  printf("Enter string");
  gets(str);
  puts(str);
  getch();
 }
```

Q. WAP to input string and print its length.

```
void main()
{
  char str[30);
  int i=0;
  printf(" Enter string");
  gets(str);
  while(str[i]!='\0')
  { i++;
  }
  printf("%d", i);
 getch();
}
```

```
a= strlen(str);
```

Q. WAP to input a string and copy the content of string to another string.

```
void main()
{
  char str[20], str1[20];
  int i = 0;
  printf ("Enter string ");
  gets (str);
  while (str[i]! = '\0')
   {
     str1[i] = str[i];
     i++;
   } str1[i] = '\0';
   puts (str1);
  getch();
}
```

strcpy(str1, str)

Q. WAP to input a string and concatinate the strings into third string.

```
void main()
{
  char str[20], str1[20], str2[40];
  int i = 0, j = 0
  printf (" Enter 2 strings");
  gets (str);
   gets (str1);
   while (str[i]! = '\0').
    { str2[i] = str[i];
        i++;
    }
```

strcat(str2, str);

```
    while(str1[j]!='\0')
  {
    str2[i] = str1[j];
     j++;
      i++;
  } str2[i]='\0';
  puts(str2);
  getch();
}
```

```
strcat (str 2 , str1);
```

Q. WAP to input two strings and compare them whether they are same are not.

```
void main()
{
  char str[30], str1[30];
  int a , b , flag = 0
  gets(str);
  gets(str1);
  a = strlen(str);
  b = strlen(str1);
  if (a==b)
  {
       for(i=0; str[i]!='\0'; i++)
       {
          if( str[i] != str1[i])
          {  flag = 1;
             break;
          }
       }
  }
```

```
if (strlen(str) == strlen(str1))
```

```
if(strcmp(str1,str
   == 0)
{

}
```

```
   if(flag==0)
  {  printf("Equal");
  }} else printf("unequal");
 else {
  printf("Unequal');
  }
}
getch();
}
```

Q. WAP a program two strings, concatinate them into first string.

```
void main()
{
 char str[40], str[20];
 int i, a;
 gets(str);
 gets(str1);
  a = strlen(str);
 for(i=0; str1[i]!='\0', i++)
 {
   str[a+i] = str1[i];
 }  str[a+i]='\0';
 puts(str);

 getch();
}
```

Q. WAP to input a string and convert all lower case character to upper case

```
void main()
{
  char str[20];
  int i;
  gets(str);                                        str[i] =
  for(i=0; str[i]!='\0'; i++)                       toupper(str[i])
  {
      if (str[i]>=97 && str[i]<=122)
str[i]-=32;  {   str[i] = str[i] - 32;
      }
  }
  puts(str);
  getch();
}
```

Q. WAP to input a string store it and print it in reverse order.

```
void main()
{
  char str[20], temp;
  int i ; ~~temp~~
  gets(str);
  for (i=0 ; i<strlen(str)/2 ; i++)
  {                  =9
```

```
    temp = str[i];
 str[i] = str[strlen(str)-1- i] ;
                      = 9
 str [strlen(str)-i ] =      ;
          = 9          temp
   }
   puts (str);
   getch();
  }
```

strrev (str)

Q. WAP to input a string and count how many of them vowels.

```
void main()
{
   char str[20];
   int i , c=0;
   gets (str);
   for (i=0 ; str[i]!='\0'; i++)
   {
       if (str[i]=='a' || str[i]=='e' || str[i]=='i' || str[i]
                                                      =='o'
          str[i]=='u' || str[i]=='A' || str[i]='E' ||
          str[i]== 'I' || str[i]== 'O' || str[i]=='U')
    {
       c++;
     }
   printf("%d",c);
   getch();
   }
```

Q. WAP to input a string and check whether its a pallandrome or not.

```
void main()
{
  char str[30]; ~~temp~~
  int i, l, flag=0
  gets(str);
  l = strlen(str);
  for(i=0; i<l/2; i++)

  {
  if(str[i] != str[l-i-1])
    flag = 1;
    break;
  }
  if (flag==0)
        printf("Pallindrome");
  else
        printf("Not Pallindrome");

}
```

Q. WAP to input a string an count how many words are there in that string.

```
void main()
{
  char str[30]
  int i, c=1;
  gets (str);
   for (i=0; str[i]!='\0'; i++)
   { if(str[i]==' ' && str[i+1]!=' ')
```

```
        c++;
    }
    printf("%d", c);
}
```

```
    if(str[0] != ' ')
        c=0;
    else
        c=1;
```

```
if(str[i]==' ' &&
        str[i+1] != ' ')
```

Q. WAP to input name and print its initials.

```
void main()
{
 char str[30];
 int i, ;
 printf("Enter string");
 gets(str);
 if(str[0]!=' ')
        printf("%d"str[0]);

for(i=0; str[i]!='\0'; i++)
  {
    if(str[i]==' ' && str[i+1]!=' ')
     printf("%c", str[i+1]);
  }
}
```

```
strlwr(str)
strupr(str)
```

Q. WAP to input string and count how many are consonants

```
    void main()
    {
char str[20],
    int i, c=0;

    gets(str);
    strlwr(str);
    for(i=0; str[i]!='\0'; i++)
    {
        ~~str[i] = tolower(str[i]);~~

        ~~if(str[i]!='a' || str[i]!='e' || str[i]!='o' || str[i]!='i',~~
~~str~~            str[i]!='u')
        ~~c++;~~

    ~~}~~
    ~~printf("%d", c);~~
   ~~getch()~~
  ~~}~~
    {
        if (str[i]>=97 && str[i]<=122)
        {
         if (str[i]!='a' && str[i]!='e' && str[i]='i' && str[i]!=
                   str[i]= 'u')

         c++;

        }

    }
    printf("%d", c);
    getch();
    }
```

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