1. Specify the size of below arrays

a. int arr[100];

400 byte

b. char arr[10];

40 byte

c. char arrval[]= "abc";

4 byte

d. char arr[] = {'a', 'b'};

2 byte

2. Write a function to read and display an integer array of 6 elements. Add a function to reverse the position of the elements.

i.e last one in first and second last as second one and so on.

#include <stdio.h>

void rev(int arr[]){

int l = 5;

for(int i=0; i<=l/2; i++){ // printing the array in reverse direction

int temp = arr[i];

arr[i] = arr[l-i];

arr[l-i] = temp;

}; for(int i=0; i<6; i++){ // printing the array in ascending order

printf("%d \t",arr[i]);

}

}

int main()

{

int arr[6];

for(int i=0; i<6; i++){ // scanning the input from command promp

scanf("%d", &arr[i]);

}

printf("Input Array:-\t");

for(int i=0; i<6; i++){ // printing the array in ascending order

printf("%d \t",arr[i]);

}

printf("\nReverse Output Array:-\t");

rev(arr);

return 0;

}

3. Write a function to reverse the contents of a string (string may/may not include space also) of maximum length 128 chars.

#include <stdio.h>

#include <string.h>

void rev(char \*str){ // for a reverse funcation

int l = strlen(str) - 1;

for(int i=0; i<=l/2; i++){

char temp = str[i];

str[i] = str[l-i];

str[l-i] = temp;

}

printf("%s", str); //op

}

int main()

{

char str[128];

fgets(str, sizeof(str), stdin);

rev(str); //calling a rev function

}

**Question 1**

#include <stdio.h>

#define MAX\_LENGTH 50

void display(char arr[MAX\_LENGTH]){ //display(arr);

printf("%s", arr);

}

int main()

{

char arr[MAX\_LENGTH]="user1";

display(arr);

return 0;

}

**Question 2**

#include <stdio.h>

#include <string.h>

#define MAX\_LENGTH 50

int isVowel(char mychar){

char ch = tolower(mychar);

if(ch=='a'||ch=='e'||ch=='i'||ch=='o'||ch=='u')

return 1;

else

return 0;

}

int main()

{

int ret = isVowel('A');

printf("%d", ret);

return 0;

}

**Question 3**

#include <stdio.h>

#include <string.h>

#define MAX\_LENGTH 50

char \*mystrcat(char arr[MAX\_LENGTH], char arr2[MAX\_LENGTH]){// char \*ptr = mystrcat(arr, arr2);

strcat(arr, arr2);

return arr;

}

int main()

{

char arr[MAX\_LENGTH]="user1";

char arr2[MAX\_LENGTH]="user2";

char \*ptr = mystrcat(arr, arr2);

printf("%s", ptr);

return 0;

}

**Question 4**

#include <stdio.h>

#include <string.h>

#define MAX\_LENGTH 50

int isVowel(char mychar){

char ch = tolower(mychar);

if(ch=='a'||ch=='e'||ch=='i'||ch=='o'||ch=='u')

return 1;

else

return 0;

}

void displayVowels(char arr[MAX\_LENGTH]){

size\_t m = sizeof(arr)/sizeof(arr[0]);

for(int i = 0; i<m; i++){

int ans = isVowel(arr[i]);

if(ans == 1){

printf("%c", arr[i]);

}

}

}

int main()

{

char arr[] = "ABCDEFGH";

char arr[MAX\_LENGTH]="user1";

displayVowels(arr);

return 0;

}