

Assignment 19

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① #include <stdio.h>
int main()
{
    char str[5][200]; vowel
    char vowel[10] = {'A', 'a', 'E', 'e', 'I', 'i', 'O', 'o', 'U', 'u'};
    int i, j, count = 0, k;
    printf("Enter 5 strings\n");
    for(i=0; i<5; i++)
        fgets(str[i], 200, stdin);
    for(i=0; i<5; i++)
        printf("%s\n", str[i]);

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    for(i=0; i<5; i++)
    {
        for(j=0; str[i][j]; j++)
        {
            for(k=0; k<10; k++)
            {
                if(str[i][j] == vowel[k])
                {
                    count++;
                    break break;
                }
            }
        }
    }

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    printf("Number of vowels in strings are %d", count);
}

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③ #include <stdio.h>
int main()
{
    char str[200];
    int n, i;
    printf("Enter number of strings you will enter\n");
    scanf("%d", &n);
    char str[n][200];
    printf("Enter %d strings\n", n);
    for(i=0; i<n; i++)
        fgets(str[i], 200, stdin);

    for(i=0; i<n; i++)
        printf("%s\n", str[i]);
    return 0;
}

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⑤ #include <stdio.h>

int main()

{

int n, i, j;

~~char str[100]~~

printf("Enter number of e-mail addresses you want to
enter\n");

scanf("%d", &n);

~~char ch[n][100];~~

printf("Enter %d e-mail addresses\n", n);

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

fgets(ch[i], 100, stdin);

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

printf("%s\n", ch[i]);

printf("Email addresses without '@' symbol are: \n");

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

for(j=0; ch[i][j]; j++)

{

if(ch[i][j] == '@')

{ break;

}

if(ch[i][j] == 'a')

{

{

~~for(k=0; k<n; k++)~~

printf("%s\n", ch[i]);

}

printf("\n");

return 0;

}


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⑥ #include <stdio.h>
int main()
{
    int n, i, length, j;
    printf("Enter number of strings you want to enter\n");
    scanf("%d", &n);
    char str[n][200];
    printf("%d\n\nEnter %d strings\n\n", n, n);
    for(i = 0; i < n; i++)
        fgets(str[i], 100, stdin);
    for(i = 0; i < n; i++)
        printf("%s\n", str[i]);

    printf("\n Palindrome strings among above strings are:\n");

    for(i = 0; i < n; i++)
    {
        for(j = 0; str[i][j] != '\0'; j++)
            length = j;
        for(j = 0; j < length/2; j++)
        {
            if(str[i][j] != str[i][length-1-j])
                break;
        }
        if(j == length/2)
            printf("%s\n", str[i]);
    }

    return 0;
}

```


⑨ #include <stdio.h>

int main()

{

char name[10][100] = {"Maya", "Harshad", "Navika",
"Neil", "Mayank", "Sanvi", "Parth", "Ritika",
"Tushar", "Tamanna"};

int i, j, number, factorial = 1;
char Name[100];

printf("Enter your name\n");

scanf("%s", Name);

printf("%s", Name);

for(i = 0; i < 10; i++)

{

~~for(j = 0; j < 10; j++)~~

if(name[i][0] == Name[0])
break;

}

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

{

if(name[i][j] == Name[j])
break;

}

if(name[i][j] == '\0')

{

printf("Your name is in the list, so you can calculate
the factorial...\n");

printf("Enter a number\n");

scanf("%d", &number);

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

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for (i = number; i > 0; i--)

factorial = factorial * number;

printf("factorial of %d is %d", number, factorial);

}

else

printf("Error ... Your name is not in the list\n");

}

getch();

return 0;

}