FUNCTIONS

Exercises:

1)
```c
void count(char* s)
{
    int i, c=0, v=0;
    for(i=0; s[i]!='\0'; i++)
    {
        if(tolower(s[i])=='a' || tolower(s[i])=='e' || tolower(s[i])=='i'
        || tolower(s[i])=='o' || tolower(s[i])=='u')
                v++;
        if(s[i]==' ')
                c++;
    }
    printf("Vowels : %d\n", v);
    printf("Blanks : %d", c);
}

void main()
{
    char s[30];
    printf("Enter a string : ");
    gets(s);
    count(s);
}
```

```c
2) int** MAT(int p[3][3], int q[3][3])
   {
     int **sum, i, j;
     sum=malloc(sizeof(int*) * 3);
     for(i=0; i<3; i++)
        sum[i] = malloc(sizeof(int*) * 3);

     for(i=0; i<3; i++)
        for(j=0; j<3; j++)
           sum[i][j]=p[i][j]+q[i][j];
     return sum;
   }

   void main()
   {
     int a[3][3], b[3][3], i, j, **s;
     printf("Enter elements of a :\n");
     for(i=0; i<3; i++)
         for(j=0; j<3; j++)
               scanf("%d", &a[i][j]);
     printf("Enter elements of b :\n");
     for(i=0; i<3; i++)
         for(j=0; j<3; j++)
               scanf("%d", &b[i][j]);

     s=MAT(a,b);

     for(i=0; i<3; i++)
     {
        for(j=0; j<3; j++)
```

```
            printf("%d ", s[i][j]);
        printf("\n");
    }
}
```

Aptitude Questions:

1) Enter two numbers : 5 6
   21 2 5 6

2) 5
   5 3 Garbage

3) 502
   4

4) f();

5) 1
   4