1. MCQ:

a. ii
b. iv
c. ii
d. i
e. i

2. Code

```c
1   #include <stdio.h>
2   int main(){
3       int arr[10],i,zero=0,odd=0,even=0;
4       printf("Enter array elemetns: ");
5       for(i=0;i<10;i++) scanf("%d", &arr[i]);
6       for(i=0;i<10;i++){
7           if(arr[i]==0){
8               zero++; printf("\nIndex %d has 0",i);}
9           else if(arr[i]%2==0){
10              even++; printf("\nIndex %d has even integer",i);}
11          else{
12              odd++; printf("\nIndex %d has odd integer",i);}
13      }
14      printf("\nThe total number of zeros = %d.\n The total
            number of odds = %d.\n The total number of evens = %d."
            ,zero,odd,even);
15      return 0;}
```

3. Code

```c
#include <stdio.h>
void func_count(char *s){
    int i,len=0,count_lc=0, count_UV=0, count_lv=0;
    for(i=0;*(s+i)!='\0';i++){
        printf("%c ",*(s+i));
        len++;
        if(*(s+i)>=97&&*(s+i)<=122)
            count_lc++;//counts all lower case letters
        if(*(s+i)=='A'||*(s+i)=='E'||*(s+i)=='I'||*(s+i)=='O'||*(s+i)=='U')
            count_UV++;   //counts all upper case vowels
        if(*(s+i)=='a'||*(s+i)=='e'||*(s+i)=='i'||*(s+i)=='o'||*(s+i)=='u')
            count_lv++;    //counts all lower case vowels
    }
    printf("\nCount of all lower case letters = %d", count_lc);
    printf("\nCount of all lower case vowels = %d", count_lv);
    printf("\nCount of all upper case vowels = %d", count_UV);
    printf("\nCount of all lower case consonants = %d", count_lc-count_lv);
}
int main() {
    char st[10];
    printf("Enter string: ");
    gets(st);
    func_count(st);
    return 0;}
```