

1. Code:

```
1  #include <stdio.h>
2  void display(int X[], int Y[]){
3      int j;
4      printf("\nPrinting the elements of the first array: \n");
5      for(j=0;j<10;j++){
6          printf("%d\n",X[j]);
7      }
8      printf("\nPrinting the elements of the second array: \n");
9      for(j=0;j<10;j++){
10         printf("%d\n",Y[j]);
11     }
12 }
13 int main() {
14     int A[10], B[10], i;
15     printf("Please enter elements of array A[10]: \n");
16     for(i=0;i<10;i++){
17         scanf("%d", &A[i]);
18         B[9-i] = A[i];
19     }
20     display(A,B);
21     return 0;}
```

a.

2. Codes

```
1  #include <stdio.h>
2  int main() {
3      char X[20], Y[20];
4      printf("Enter the string elements for X[20]: ");
5      gets(X);
6      int len=0, i=0;
7      while(X[i]!='\0'){
8          len++;
9          i++;}
10     printf("\nLength of input string = %d",len);
11     for(i=0;i<len;i++){
12         if(X[i]>='a' && X[i]<='z')
13             Y[i] = X[i]-32;
14         else
15             Y[i] = X[i];
16     }
17     printf("\nThe original string: ");
18     puts(X);
19     printf("\nThe modified string: ");
20     puts(Y);
21     return 0;}
```

a.