

1. Write a program that prints all the addresses of the elements of
  - a. an integer array
  - b. a character array
  - c. a double array

2. Write a program to allocate the following:

- a. An integer array of size 10
- b. A character array of size 10
- c. A double array of size 10

Finally print all the addresses of the elements of the arrays.

3. Write a program using pointer arithmetic that intermixes two equal length strings i.e. given two strings  $X = "x_1x_2x_3 \dots x_n"$  and  $Y = "y_1y_2y_3 \dots y_n"$  you have to create another string such that  $Z = "x_1y_1x_2y_2x_3y_3 \dots x_ny_n"$ .