

## Data Structures & Applications – Assignment 2 - set 2

- a. Write the output of the statements shown below.

Assume base address of an array as 2000 and sizeof(float)=4.

```
float arr[] = { 12.5, 10.0, 13.5, 90.5, 0.5};  
float *ptr1 = &arr[0];  
float *ptr2 = ptr1 + 3;  
float **ptr3 = &ptr1;  
printf("%f\t", *ptr2);  
printf("%ld\t", ptr2 - ptr1);  
printf("%f\t", **ptr3);  
printf("%f\t", ++ptr2[1]);
```

- b. Write a program to allocate memory to store and display 'N' integer elements.

Using the same pointer, change the size to M, where  $M > N$  and read only 'M-N' elements. And display all the M elements.

$$2+3=5M$$