

Lab 5 – Structures – Suggested Answers

Phonebook Management System: Suggested Answer

```
void printPB(PHONEBk *pb, int size)
{
    int i;

    printf("The phonebook list: \n");
    if (size==0)
        printf("Empty phonebook\n");
    else {
        for (i=0; i<size; i++) {
            printf("Name: %s\n", (pb+i)->name);
            printf("Telno: %d\n", (pb+i)->telno);
        }
    }
}

int readin(PHONEBk *pb)
{
    int size=0;
    char *p, dummy[80];

    while (1) {
        printf("Enter name: \n");
        fgets(pb->name, 80, stdin);
        if (p=strchr(pb->name, '\n')) *p = '\0';
        if (strcmp(pb->name, "#")==0)
            break;
        printf("Enter tel: \n");
        scanf("%d",&(pb->telno));
        fgets(dummy, 80, stdin);
        pb++;
        size++;
    }
    return size;
}

void search(PHONEBk *pb, int size, char *target)
{
    int i;

    for (i=0; i<size; i++, pb++){
        if (strcmp(pb->name, target)==0){
            printf("Name = %s, Tel = %d\n", target, pb->telno);
            break;
        }
    }
    if (i==size)
        printf("Name not found!\n");
}
```