<u>Lab 4 – Character Strings – Suggested Answers</u>

```
Q1: Suggested Answer
char *sweepSpace1(char *str)
 int i, j=0, len;
 len=strlen(str);
 for ( i=0; i < len; i++){
   if (str[i] != ' '){
     str[j] = str[i];
    j++;
   }
 str[j] = '\0';
 return str;
}
char *sweepSpace2(char *str)
 int i=0, j=0, len;
 len=strlen(str);
 for ( i=0; i < len; i++){
   if (*(str+i) != ' '){
     *(str+j) = *(str+i);
    j++;
   }
 *(str+j) = '\0';
 return str;
}
Q2: Suggested Answer
void readNames(char nameptr[][80], int *size)
 int i;
 printf("Enter size: \n");
 scanf("%d", size);
 printf("Enter %d names: \n", *size);
 for (i=0; i < *size; i++)
   scanf("%s", nameptr[i]);
int findTarget(char *target, char nameptr[][80], int size)
{
 int i;
 for (i=0; i<size; i++) {
   if (strcmp(nameptr[i], target) == 0)
     return i;
 }
 return -1;
}
```

Q3: Suggested Answer

```
int palindrome(char *str)
 int len, i;
 char *p1, *p2;
 i=0; len=0;
 while (*(str+i)!='\0') {
   i++;
   len++;
 }
 p1=str;
 p2=str+len-1;
 while (p1<p2){
   if (*p1 != *p2)
    break;
   else {
     p1++;
    p2--;
   }
 }
 if (p1<p2)
   return 0;
 else
   return 1;
}
```