

LAB ASSIGNMENT 5

a)

```
main.c
1 #include <stdio.h>
2 int main() {
3     int n, temprev= 0, r, original;
4     printf("Enter an integer: ");
5     scanf("%d", &n);
6     original=n;
7
8     // reversed integer is stored in another variable
9     while (n != 0) {
10        r = n % 10;
11        temprev = temprev * 10 + r;
12        n /= 10;
13    }
14
15    //checks if palindrome or not
16    if (original == temprev)
17        printf("Reverse of %d is %d , so it is a palindrome."
18            ,original, temprev);
19    else
```

Output

```
/tmp/ZgOyMD0tsQ.o
Enter an integer: 1234
Reverse of 1234 is 4321 , so it is not a palindrome.
```

b)

```
main.c
1 #include <stdio.h>
2 #include <string.h>
3
4 int main (void) {
5     char s1[25], s2[25], tempstr;
6     int i, j, n, m;
7
8     printf("Enter string 1:");
9     scanf("%s", s1);
10
11    printf("Enter string 2:");
12    scanf("%s", s2);
13
14    n = strlen(s1);
15    m = strlen(s2);
16
17    // If both strings are of different length, then they are
18    // not anagrams
19    if( n != m) {
```

Output

```
/tmp/ZgOyMD0tsQ.o
Enter string 1:dosa
Enter string 2:soda
Strings are anagrams
```