**1.Python Program to Check if a Number is a Palindrome**

n=int(input("Enter number:"))  
temp=n  
rev=0  
while(n>0):  
dig=n%10  
rev=rev\*10+dig  
n=n//10  
if(temp==rev):  
print("The number is a palindrome!")  
else:  
print("The number isn't a palindrome!")

2. Write a program in C to print all permutations of a given string using pointers.

#include <stdio.h>

#include <string.h>

/\* Function to swap values at two pointers \*/

void swap (char \*x, char \*y)

{

char temp;

temp = \*x;

\*x = \*y;

y = temp;

}

/ End of swap() \*/

/\* Function to print permutations of string \*/

void permute(char \*a, int i, int n)

{

int j;

if (i == n)

printf("%s\n", a);

else {

for (j = i; j <= n; j++)

{

swap((a + i), (a + j));

permute(a, i + 1, n);

swap((a + i), (a + j)); //backtrack

}

}

}

/\* The main() begins \*/

int main()

{

char a[20];

int n;

printf("Enter a string: ");

scanf("%s", a);

n = strlen(a);

printf("Permutaions:\n");

permute(a, 0, n - 1);

getchar();

return 0;

}