

Practical Work Number 6

Programming in C - Functions - Part 3

Exercise 1

Write a function that checks if a string is a palindrome or not. The function should return 1 if it is a palindrome and 0 otherwise. Recall that a string is said to be a palindrome if it reads the same forwards and backwards.

Example: "non", "elle".

Exercise 2

Consider the following program:

```
#include<stdio.h>
void myfonction (int a,int b)
{ float z; int p,r;
z=a/b;
p=a*b;
r=a%b;
}
int main() {
int A,B;
printf("Enter number A \n");
scanf("%f",&A);
printf("Enter number B \n");
scanf("%f",&B);
myfonction (A,B);
return 0;}
```

-Modify the procedure to return the values of z, p, and r (by declaring z, p, and r as local variables).

-Modify the main function to display z, p, and r.

Exercise 3

Correct the following program:

```
#include<stdio.h>
int x,y;
void permutation (int a, int b){
int c;
c=a;
a=b;
b=c;}
int main(){
printf("Enter the value of x:");
scanf("%d",x);
printf("Enter the value of x y:");
scanf("%d",y);
permutation(x,y);
printf("x = %d\n",x);
printf("y = %f\n",y);
return 0;}
```