Prasanna Dhungana 21053439 A-28 LAB Assignment 12

1. Write a C Program that passes three variables (a, b, c) as separate parameters to another user-defined function and rotates the values stored so the value of 'a' goes to 'b', value of 'b' goes to 'c', and value of 'c' to 'a'.

Program:-

```
#include<stdio.h>
void swap(int *, int *, int *);
int main(){
    int a , b , c ;
    printf("\n\nEnter the three numbers to swap :");
    scanf("%d %d %d", &a , &b , &c);
    printf("Before Swap:\n");
    printf("a = %d, b = %d, c = %d\n\n ",a,b,c);
    swap(&a , &b , &c);
    printf("After Swap:\n");
    printf("a = %d, b = %d, c = %d\n\n ",a,b,c);
    return 0;
}
void swap(int *x, int *y, int *z){
                                         10 of losers to assume primilenia forest the locates
    int temp;
                                         2_1_rotateValues.c -o LA12_1_rotateValues };
    temp = *x;
    *x = *z;
                                         Enter the three numbers to swap :10 20 30
    *z =*v;
                                         Before Swap:
                                         a = 10 , b = 20 , c = 30
    *y = temp;
}
                                         After Swap:
                                         a = 30 , b = 10 , c = 20
Output:-
```

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2. Write a C Program that passes the values of variables a, m to a function power() that finds the value of a m inside its body and saves the value to result variable implicitly.

```
Program:-
```

```
#include<stdio.h>
void power(float , int , float *);
int main(){
    int m ;
    float a , result;
    printf("\n\nEnter the value of integer and the power to which
it will be raised :");
    scanf("%f %d", &a , &m);
    power(a , m , &result);
    printf("The result is : %.3f\n\n", result);
    return 0;
}
void power( float x , int y , float *r){
    int i;
    *r = 1.0;
    for (i = 0; i<y ; i++) {</pre>
        *r *= x;
    }
}
Output:-
  cc LA12 2 powerimplicitly.c -o LA12 2 powerimplicitly }; if ($?) { .\LA12 :
  Enter the value of integer and the power to which it will be raised :2.1 10
  The result is : 1667.987
  PS C:\Users\Prasanna Dhungana\OneDrive\Desktop\2nd sem\21053439 A28\LAB12>
```