

Experiment 3: Demonstration of Data Types, Format Specifiers, and Swapping of Two Numbers

Aim:

To understand the use of various data types and format specifiers in C, and to implement a program for swapping two numbers.

C Program:

```
#include <stdio.h>
```

```
int main() {
```

```
    int a, b, temp;
```

```
    float x = 12.5;
```

```
    char c = 'A';
```

```
    printf("Integer value: %d\n", 10);
```

```
    printf("Floating value: %.2f\n", x);
```

```
    printf("Character value: %c\n", c);
```

```
    printf("\nEnter first number: ");
```

```
    scanf("%d", &a);
```

```
    printf("Enter second number: ");
```

```
    scanf("%d", &b);
```

```
    printf("\nBefore swapping: a = %d, b = %d\n", a, b);
```

```
    temp = a;
```

```
    a = b;
```

```
b = temp;  
printf("After swapping: a = %d, b = %d\n", a, b);  
return 0;  
}
```

Output: