**DATA STRUCTURE LAB EXERCISES**

**EXPERIMENT-1**

#include <stdio.h>

int reverse(int num) {

int reversed = 0;

while (num != 0) {

int digit = num % 10;

reversed = reversed \* 10 + digit;

num /= 10;

}

return reversed;

}

int main() {

int num;

printf("Enter a 32-bit signed integer: ");

scanf("%d", &num);

int result = reverse(num);

printf("Reversed integer: %d\n", result);

return 0;

}

