

CS 4097D Object-Oriented Systems Lab: Assignment 1

1. Write a Java program that accepts the number and its exponent and returns the power of the number.

Sample Input

Enter the base of the number: 3

Enter the exponent: 4

Sample Output

81

2. Write a Java program that accepts two numbers, “a” and “b” from the user input and swap the numbers without using a third variable

Sample Input

a=25

b=40

Sample Output

a = 40

b=25

3. Write a Java program that accepts a number and find the number of digits in the given number.

Sample Input

34320

Sample Output

5

4. Write a Java program that accepts a number and returns the reverse of that number.

Sample Input

5432

Sample Output

2345

5. Write a Java program that accepts an integer array of size “N” from the user as input and prints the array in sorted order (Descending order). Write your sorting function.

Sample Input

Size of the array, N=5

18

7

25

33

1

Sample Output

33 25 18 7 1

6. Write a Java program that accepts a number and returns true when the number is Palindrome and false otherwise.

Sample Input 1

343

Sample Output 1

True

Sample Input 2

1256

Sample Output 2

False

7. Write a Java program that accepts N as user input and finds the Fibonacci series of N numbers.

Sample Input

9

Sample Output

0 1 1 2 3 5 8 13 21