

**Sister Nibedita Govt. Gen. Degree College for Girls**  
**Dept. of Computer Science**  
**Shell Script Assignment**  
**Sem. III**  
**University of Calcutta**

1. Write a shell script to display the present working directory and the details of all files whose name start with the letter “D” in the present directory . Store the output in a file named ASSIGN\_1\_output.txt.
2. Write a Shell script to convert the lowercase letters of a file into uppercase .
3. Write a Shell script to count the frequency of each word stored in a file .Read the filename as input .
4. Write a Shell script to swap the values of two numbers without using any temporary variable .
5. Write a Shell script for any base to any base conversion . The input and output bases should be taken as input.
6. Write a Shell script to count the number of users currently logged into the system .
7. Write a shell script to print the lines between line numbers n1 and n2 .The filename and the values n1 and n2 should be taken as input.
8. Write a shell script to read the (x,y) coordinates of three points and test whether they form a triangle or not. Determine the type of the triangle if they form one.
9. Write a shell script to print the Fibonacci numbers within a given range.
10. Write a shell script to print the prime numbers within a given range.
11. Write a program to read four vertices of a polygon and find out whether the polygon is square, rectangle or parallelogram.
12. Count the number of directories present in the current working directory.
13. Find the 2’s complement binary representation of a decimal number supplied by user.
14. Write a shell script to perform hexadecimal addition and subtraction of two numbers supplied in hex system.
15. Write a shell script that will perform selection sort/ Insertion sort/ Bubble sort on a set of n numbers. The data should be arranged in a non-decreasing order.
16. Write a shell script to design a calculator having the following options

1: Addition

2: Subtraction

3: Multiplication

4: Division

Use switch-case to perform that.

17. Write a shell script to evaluate a valid postfix expression with operators +,-, \*, /, \$ (exponentiation).

18. Write a shell script which performs binary search on a sorted array on n elements.