

UNIX Class Assignment

Q1. Print the following pattern using a shell script.

```
0
0 1
0 1 2
0 1 2 3
0 1 2 3 4
0 1 2 3 4 5
```

Q2. Write a shell script to print the Fibonacci series up to the number 100.

Q3. Write a shell script to find the factorial of a number entered by the user.

Q4. Write a shell script which prints the following

- a. Current home directory.
- b. Current user name.
- c. The message "Today is :" with current date in MM/dd/yy format
- d. The message "No of users logged in :" with total no of current logged in users

Q5. Write a shell script to accept 10 number and tell how many are positive and how many are negative.

Q6. Write a shell script to check if a number entered by the user is a prime number or not.

Q7. Write a shell script that emulates a calculator. Takes the number and the operand as inputs from user and display the corresponding result.

Q8. Write a script to find if a string is a palindrome or not.

Q9. Accept a number from the user as input. If the number is even, print "even number", if odd print "odd number".

Q10. Write a shell script to find the max number out of 3 numbers entered by the user.

Q11. Write shell script to accept test scores for Maths, English and Science and calculate the average of the scores. Based on the average generated, display the message as follows :

Avg	message
≥ 90 & ≤ 100	Grade A
< 90 & ≥ 80	Grade B
< 80 & ≥ 70	Grade C

<70 & >= 60	Grade D
<60	Grade F

Q12. Take 10 numbers as input from the user and store all the even numbers in a file called even.txt and the odd numbers in a file called odd.txt.

Q13. Print the following pattern using a shell script

```
  *
 * *
* * *
* * * *
* * * * *
```

Q14. Write a program to reverse a string entered by the user. If the string is a palindrome then store it in a file called palindrome.txt.