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| **Quiz 01** |

**Operating System Lab**

**Question no 01:**

Write bash script which only accept a palindrome value in an array also print the length of the given value by the user and find the largest length palindrome word from the given values in an array

**Expected Output:**

Input a palindrome value: cat

Wrong input

Input a palindrome value: MOM

Correct it’s a palindrome the length of the given value is 3…

**Question no 02:**

Consider the following set of processes, with the length of the CPU burst given in seconds:

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| --- | --- | --- |
| Process | Burst | Priority |
| P1 | 32 | 4 |
| P2 | 24 | 1 |
| P3 | 4 | 2 |
| P4 | 36 | 2 |
| P5 | 12 | 3 |

**NOTE:** The processes are assumed to have arrived in the order P1, P2, P3, P4, P5, all at time 0.

1. **Draw four Gantt charts** that illustrate the execution of these processes using the following scheduling algorithms: **FCFS**, **SJF**, **non-preemptive priority** (a larger priority number implies a higher priority), and **Round Robin** (quantum = 8).
2. What is the **turnaround time of each process** for each of the scheduling algorithms in part a?
3. What is the **waiting time of each process** for each of these scheduling algorithms?
4. Which of the algorithms results in the minimum **average waiting time** (over all processes)?

1. Which of the algorithms results in the minimum **average turnaround time** (over all processes)?