

## **Programming Assignment #1**

**Due Date: 18<sup>th</sup> August, 2022**

**Total Marks: 20**

1. a) Log into the system
- b) Using an Editor, create an inventory file for the following data (do not include column heads, only the data). Call it INVENTORY.

Part No.	Price	Quantity on Hand	Reorder Point	Minimum Order
0123	1.23	23	20	20
0234	2.34	34	50	25
3456	34.56	56	50	10
4567	45.67	7	10	5
5678	6.78	75	75	25

- c) Create a awk script to prepare an inventory report. The report is to contain the part number, price, quantity on hand, reorder point, minimum order and order amount.
- d) The order amount, calculated when the quantity on hands falls below the reorder point, is the sum of the reorder point and the minimum order less the quantity on hand.
- e) Also provide a report heading, such as “INVENTORY REPORT”, headings for each column, and an “END REPORT” message at the end of the report.
- f) Print the report.
- g) Logout of the system.

2. a) Log into the system.  
b) Using an editor, create the following employee file. Call it EMPLOYEE.  
Do not include the column heads in the file.

Employee No.	Department	Pay Rate	Exempt	Hours Worked
0101	41	8.11	Y	49
0722	32	7.22	N	40
1273	23	5.43	Y	39
2584	14	6.74	N	45

c) Write a bash script to read the employee file and create a payroll register.  
Call it EMPLOYEE . The register is to contain the following data.

- i) Employee Number (print left-justified)
- ii) Department
- iii) Pay rate
- iv) Exempt
- v) Hours worked
- vi) Base pay (pay rate \* hours worked)
- vii) Overtime pay

Overtime pay is calculated only for nonexempt employees. An employee is exempt if Y appears in the exempt column. Overtime is paid at time and one half for all hours worked over 40.

viii) Total pay

d) Print the report.

e) Log out of the system.