Task Day1:

Activity 1:

1. Create a script that asks for username then send a greeting to him.

**#!/bin/bash**

**echo “What is your name?”**

**Read name**

**Echo “Hello $name nice to see you!”**

2. Create a script called s1 that calls another script s2 where:

a. In s1 there is a variable called x, it's value 5

b. Try to print the value of x in s2 .

**#!/bin/bash**

**touch s2.sh**

**chmod +x s2.sh**

**x=5**

**echo “#!/bin/bash**

**echo ‘$x’” > s2.sh**

**bash s2.sh**

3. Create a script called mycp where:

a. It copies a file from directory to another

b. It copies multiple files from directory to another.

**#!/bin/bash**

**cp /home/bayader/Templates/file1.txt /home/bayader/Documents**

**cp /home/bayader/Templates/\* /home/bayader/Documents**

4. Create a script called mycd where it change directory to the given argument directory.

**#!/bin/bash**

**cd $0**

5. Create a script called myls where it lists the given argument directory.

**#!/bin/bash**

**ls $0**

6. Create a script to get number from user and add 1 to it and print it.

**#!/bin/bash**

**echo “Enter a number”**

**Read num**

**echo “Your number +1 =num+1”**

7.Design script to print the current logged in user

**#!/bin/bash**

**echo “$USER”**

8. Design script to print content of file /etc/password

**#!/bin/bash**

**cat /etc/passwd**

9. Script to sort content of file /etc/passwd based on the user id

**#!/bin/bash**

**sort -k 5n /etc/passwd**

10. Script to sort content of file /etc/passwd based on user name alphabet

**#!/bin/bash**

**sort -k 1n /etc/passwd**

11. Script to sort all integer input argument from high to low

**#!/bin/bash**

**printf ‘%s\n’ “$#” | sort -rn**

Activity2:

Using sed utility

1-Display the lines that contain the word “lp” in /etc/passwd file.

**#!/bin/bash**

**sed –n ‘/lp/p’ /etc/passwd**

2-Display /etc/passwd file except the third line.

**#!/bin/bash**

**sed ‘3d’ /etc/passwd**

3-Display /etc/passwd file except the last line.

**#!/bin/bash**

**sed ‘$d’ /etc/passwd**

4-Display /etc/passwd file except the lines that contain the word “lp”.

**#!/bin/bash**

**sed ‘/lp/d’ /etc/passwd**

5-Substitute all the words that contain “lp” with “mylp” in /etc/passwd file

**#!/bin/bash**

**sed ‘s/lp/mylp/g’ /etc/passwd**

Using awk utility

1-Print full name (comment) of all users in the system.

**#!/bin/bash**

**awk –F: ‘{print $1}’ /etc/passwd**

2-Print login, full name (comment) and home directory of all users.( Print each line preceded by a line number)

**#!/bin/bash**

**awk –F: ‘{print NR,$1,$3,$5}’ /etc/passwd**

3-Print login, uid and full name (comment) of those uid is greater than 500

**#!/bin/bash**

**awk –F: ‘{$3>500 print $1,$3,$5}’ /etc/passwd**

4-Print login, uid and full name (comment) of those uid is exactly 500

**#!/bin/bash**

**awk –F: ‘{$3=500 print $1,$3,$5}’ /etc/passwd**

5-Print line from 5 to 15 from /etc/passwd

**#!/bin/bash**

**awk –F: ‘NR=>1 && NR=<15 {print}’ /etc/passwd**

6-Change lp to mylp

**#!/bin/bash**

**awk –F: ‘gsub(“lp”,”mylp”){print}’ /etc/passwd**

7-Print all information about greatest uid.

**#!/bin/bash**

**cat /etc/passwd | awk -F: '{print $3,$1}' | sort -n | tail -n 1**

8-Get the sum of all accounts id’s.

**#!/bin/bash**

**awk '{ sum += $3 } END { print sum }' /etc/passwd**