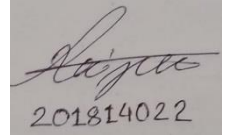


CSE ~ 308

Assignment ~ 4 Report



(a) Problem Statement :

Take an array of number and Check divisibility for both 2 and 4. If a number is divisible by 2 but not by 4 then the number is only divisible by 2 else the number is both divisible by 2 and 4 or 8. Output will be shown according to the numbers.

(b) Bash Script :

```
#!/usr/bin/bash
os=(10 21 24 40 50)
arr_len=${#os[@]}
for(( i=0 ; i<$arr_len ; i++))
do
num=${os[$i]}
if [ $(( num % 4 )) -eq 0 ]
then
    num2=$((num/2))
    if [ $(( num2 % 4 )) -eq 0 ]
    then
        echo "div by 2,4,8"
    else
        echo "div by 2,4"
    fi
elif [ $(( num % 2 )) -eq 0 ]
then
    echo "only div by 2"
else
    echo "not div by 2,4 or 8"
fi
done
```

(c) References :

- [1] William E. Shotts, Jr., The Linux Command Line : A Complete
Introduction, Part 1 : Learning The Shell, Vol. 1, no. 6, pp. 77-100.