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Class: KHTN2021

OPERATING SYSTEM LAB 2'S REPORT

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*Note: Export file to **PDF** and name the file by following format:

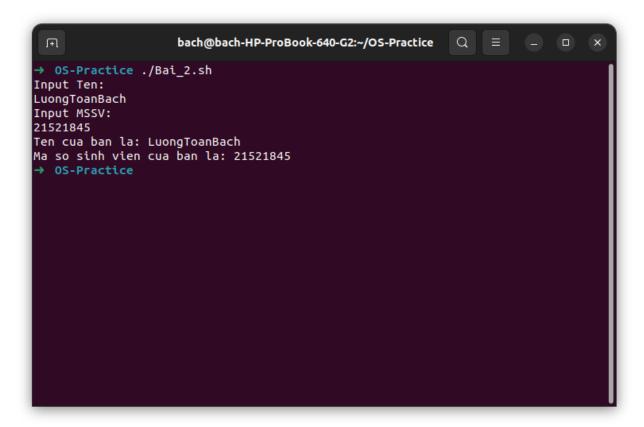
LAB X - Student ID>.pdf

Section 2.5

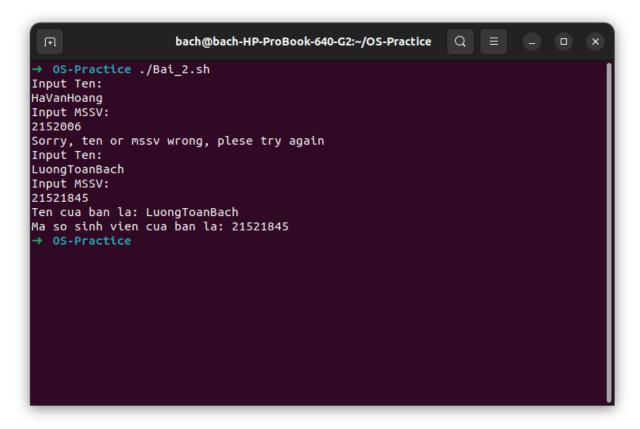
- 2.5.1. Examples
- 2.5.2. Check name and mssv
 - 2.5.2.1. Code file

```
vim Bai_2.sh
#!/bin/bash
while true
        echo "Input Ten:"
read ten
echo "Input MSSV:"
read mssv
         if [ $ten == "LuongToanBach" ] && [ $mssv == "21521845" ]
         then
                  break
         echo "Sorry, ten or mssv wrong, plese try again"
echo "Ten cua ban la: $ten"
echo "Ma so sinh vien cua ban la: $mssv"
exit 0
"Bai_2.sh" 16L, 297B
                                                                        1,1
```

2.5.2.2. Test 1



2.5.2.3. Test 2



2.5.3. Calculate sum from 1 to n (n>10)

2.5.3.1. Code file

```
ſŦ
                                                                      Q = _ _
                                          vim Bai_3.sh
#!/bin/bash
while true
do
         echo "Input n:"
         \mathsf{read}\ \mathbf{n}
         if [ $n -ge 10 ]
         then
                   break
         echo "n is too small (<10), please try again."</pre>
done
ans=0
i=1
while [ $i -le $n ]
         ans=$(($ans+i))
         i=$(($i+1))
done
echo "Sum from 1 to n is: <code>$ans"</code>
"Bai_3.sh" 19L, 240B
                                                                         1,1
                                                                                          All
```

2.5.3.2. Test 1

```
bach@bach-HP-ProBook-640-G2:-/OS-Practice Q ≡ - □ ×

→ OS-Practice ./Bai_3.sh
Input n:
13
Sum from 1 to n is: 91
→ OS-Practice
```

2.5.3.3. Test 2

2.5.4. Check if string in file text 2.5.4.1. Code file

```
ſŦ
                                                          Q = - - ×
                                   vim Bai_4.sh
#!/bin/bash
while true
do
       read filename
       if [ -f $filename ]
       then
                break
       echo "$filename doesn't exist"
done
echo "Input string you want to find in $filename:"
read string
if [[ `grep $string $filename` != "" ]]
then
       echo "$string exist in $filename"
else
       echo "$string doesn't exist in $filename"
"Bai_4.sh" 21L, 346B
                                                            21,5
                                                                          All
```

2.5.4.2. Test 1

```
→ OS-Practice cat file1
abcd
efgh
abcd
lkhh
→ OS-Practice ./Bai_4.sh
Input filename:
wrongfile
wrongfile doesn't exist
Input filename:
```

2.5.4.3. Test 2

```
bach@bach-HP-ProBook-640-G2:~/OS-Practice Q ≡ - □ ×

→ OS-Practice cat file1
abcd
efgh
abcd
lkhh½

→ OS-Practice ./Bai_4.sh
Input filename:
file1
Input string you want to find in file1:
cd
cd exist in file1

→ OS-Practice
```

2.5.4.4. Test 3

```
bach@bach-HP-ProBook-640-G2:-/OS-Practice Q ≡ - □ ×

→ OS-Practice cat file1
abcd
efgh
abcd
lkhh½

→ OS-Practice ./Bai_4.sh
Input filename:
file1
Input string you want to find in file1:
gasgagahasehew
gasgagahasehew doesn't exist in file1

→ OS-Practice
```

2.5.5. Check if string in file 2.5.5.1. Code file

```
Q = - -
                                      vim Bai_5.sh
#!/bin/bash
read inputfile
read outputfile
echo "Nhap chuoi muon tim kiem trong $inputfile:"
read string
if [ ! -f $inputfile ]
then
echo "Tap tin $inputfile khong ton tai" > $outputfile
elif [[ `grep $string $inputfile` != ""]]
then
        echo "Trong tap tin $inputfile co chuoi $string" > $outputfile
else
        echo "Trong tap tin $inputfile khong co chuoi $string" > $outputfile
exit 0
"Bai_5.sh" 18L, 434B
                                                                  1,1
                                                                                  All
```

2.5.5.2. Test 1

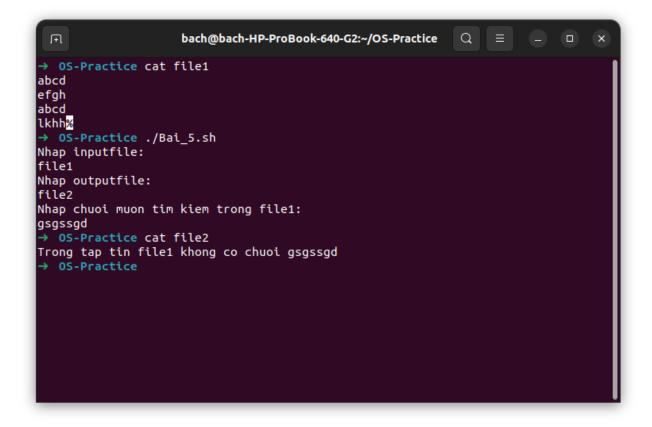
```
bach@bach-HP-ProBook-640-G2:~/OS-Practice Q ≡ - □ ×

→ OS-Practice ./Bai_5.sh
Nhap inputfile:
wrongfile
Nhap outputfile:
file2
Nhap chuoi muon tim kiem trong wrongfile:
afafsf
→ OS-Practice cat file2
Tap tin wrongfile khong ton tai
→ OS-Practice
```

2.5.5.3. Test 2

```
ſŦΙ
                                                              Q = - -
                     bach@bach-HP-ProBook-640-G2:~/OS-Practice
→ OS-Practice cat file1
abcd
efgh
abcd
lkhh<mark>%</mark>
→ OS-Practice ./Bai_5.sh
Nhap inputfile:
file1
Nhap outputfile:
file2
Nhap chuoi muon tim kiem trong file1:
cd
→ OS-Practice cat file2
Trong tap tin file1 co chuoi cd
→ OS-Practice
```

2.5.5.4. Test 3



2.5.6. Print day of given month, year 2.5.6.1. Code file

```
Q = - -
                                    vim Bai_6.sh
#!/bin/bash
arr30=(4 6 9 11)
read year
echo "Nhap thang:"
read month
echo "Nhap tep tin luu ket qua:"
read outputfile
if [ $year -le 1900 ]
then
        echo "Nam khong hop le" > $outputfile
elif [[ \$month -le 0 || \$month -gt 12 ]]
       echo "Thang khong hop le" > $outputfile
elif [ $month -eq 2 ]
then
        if [[ $(($year % 400)) -eq 0 ]] || [[ $(($year % 4)) -eq 0 && $(($year %
 100)) -ne 0 ]]
        then
                echo "29" > $outputfile
        else
                echo "28" > $outputfile
                                                               1,1
                                                                             Тор
```

```
vim Bai_6.sh
echo "Nhap tep tin luu ket qua:"
read outputfile
if [ $year -le 1900 ]
then
        echo "Nam khong hop le" > $outputfile
elif [[ $month -le 0 || $month -gt 12 ]]
then
        echo "Thang khong hop le" > $outputfile
elif [ $month -eq 2 ]
then
        if [[ $(($year % 400)) -eq 0 ]] || [[ $(($year % 4)) -eq 0 && $(($year %
100)) -ne 0 ]]
        then
                echo "29" > $outputfile
        else
                echo "28" > $outputfile
fi
elif [[ " ${arr30[*]} " =~ " ${month} " ]]
then
        echo "30" > $outputfile
else
        echo "31" > Soutputfile
                                                               29,1
                                                                              Bot
```

2.5.6.2. Test 1

```
bach@bach-HP-ProBook-640-G2:-/OS-Practice Q ≡ - □ ×

→ OS-Practice ./Bai_6.sh
Nhap nam:
1841
Nhap thang:
11
Nhap tep tin luu ket qua:
file2
→ OS-Practice cat file2
Nam khong hop le
→ OS-Practice
```

2.5.6.3. Test 2

```
bach@bach-HP-ProBook-640-G2:-/OS-Practice Q ≡ - □ ×

→ OS-Practice ./Bai_6.sh
Nhap nam:
1914
Nhap thang:
13
Nhap tep tin luu ket qua:
file2
→ OS-Practice cat file2
Thang khong hop le
→ OS-Practice
```

2.5.6.4. Test 3

