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Class: IT007.M22.1

OPERATING SYSTEM LAB 02'S REPORT

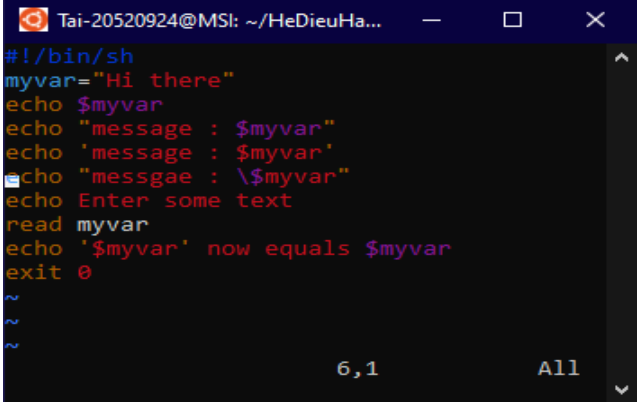
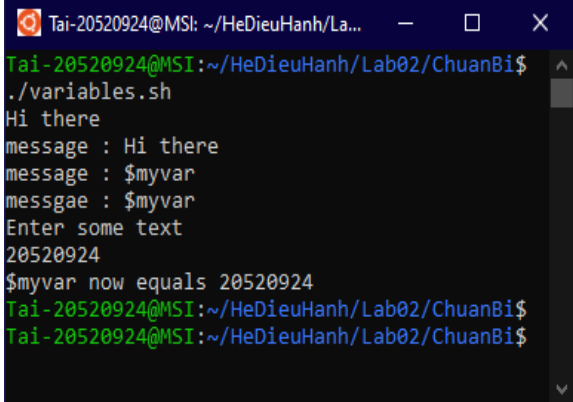
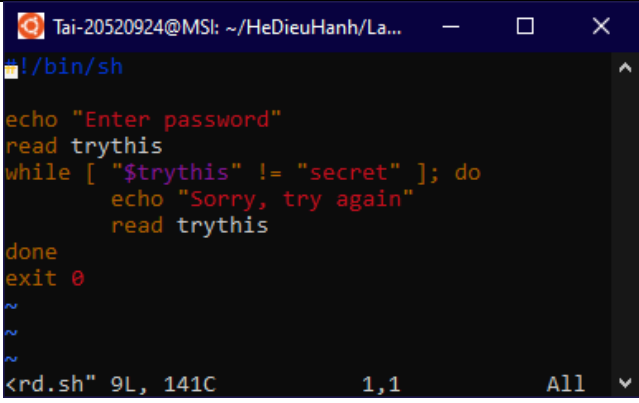
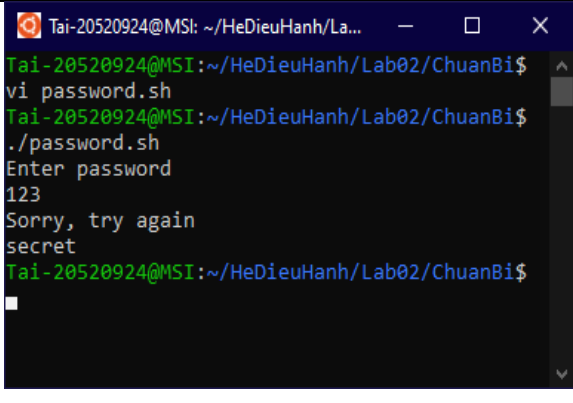
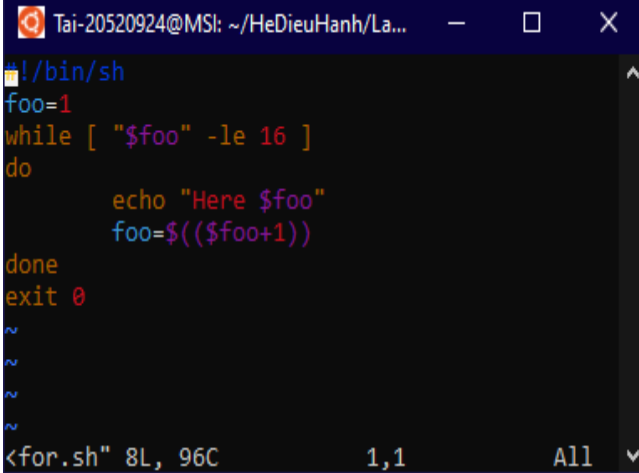
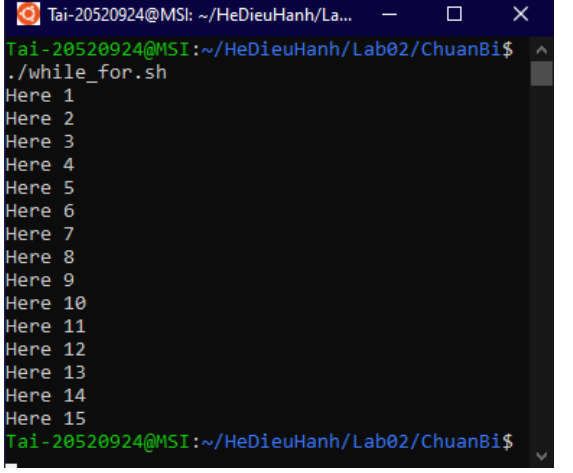
SUMMARY

Task		Status
LAB02	1. Chạy tất cả các đoạn lệnh ví dụ ở phần 2.4. Chụp hình kết quả chạy các file script và lưu vào báo cáo.	DONE
	2. Viết chương trình cho phép nhập vào tên và mssv. Kiểm tra nếu mssv đó không trùng với mình thì bắt nhập lại. In ra màn hình kết quả.	DONE
	3. Viết chương trình cho phép nhập vào một số n. Kiểm tra nếu $n < 10$ thì bắt nhập lại. Tính tổng các số từ 1 đến n. In kết quả ra màn hình.	DONE
	4. Viết trình cho phép nhập vào một chuỗi. Kiểm tra chuỗi đó có tồn tại trong một file text (ví dụ test.txt) cùng thư mục hay không.	DONE

Self-scores: 9

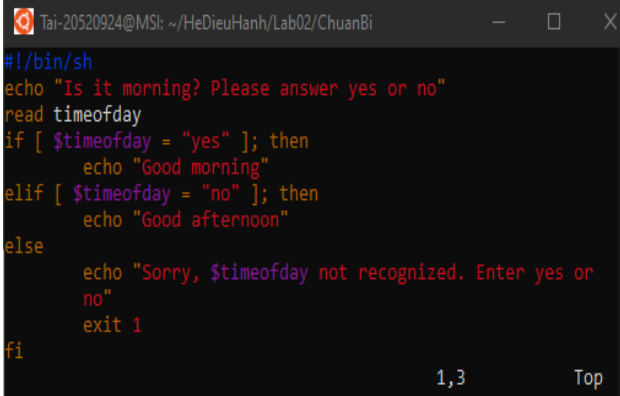
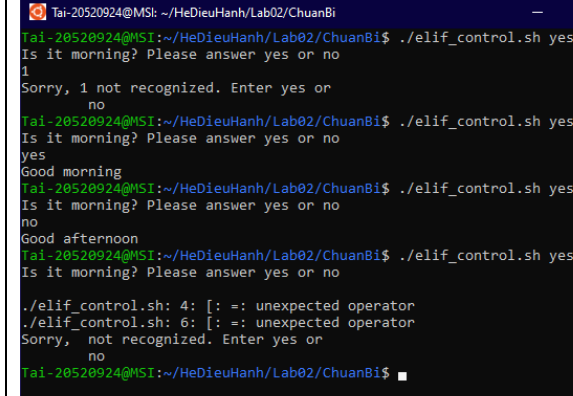
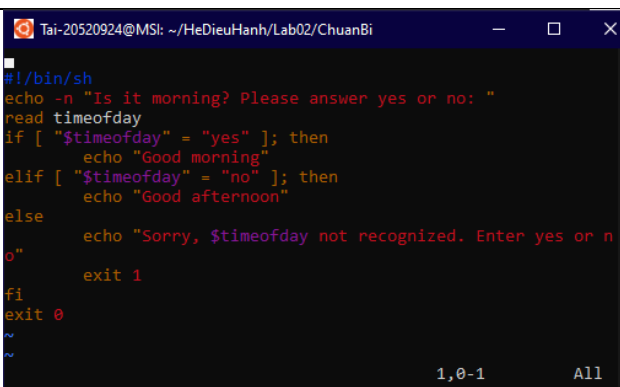
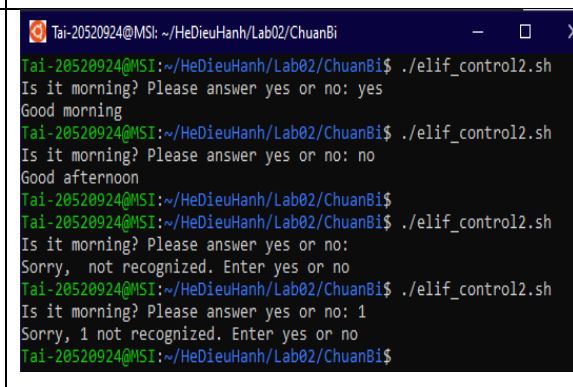
1. LAB 2 | PROGRAMMING IN SHELL

- Chạy tất cả các đoạn lệnh ví dụ ở phần Chụp hình kết quả chạy các file script và lưu vào báo cáo.

File name	Vi [file name]	./[filename]
Variables.sh	 <pre>#!/bin/sh myvar="Hi there" echo \$myvar echo "message : \$myvar" echo 'message : \$myvar' echo "messgae : \"\$myvar\"" echo Enter some text read myvar echo '\$myvar' now equals \$myvar exit 0 ~ ~ ~</pre>	 <pre>Tai-20520924@MSI: ~/HeDieuHanh/La... ./variables.sh Hi there message : Hi there message : \$myvar messgae : \$myvar Enter some text 20520924 \$myvar now equals 20520924 Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$ Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$</pre>
Password.sh	 <pre>#!/bin/sh echo "Enter password" read trythis while ["\$trythis" != "secret"]; do echo "Sorry, try again" read trythis done exit 0 ~ ~ ~</pre>	 <pre>Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$ vi password.sh Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./password.sh Enter password 123 Sorry, try again secret Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$</pre>
While_for.sh	 <pre>#!/bin/sh foo=1 while ["\$foo" -le 16] do echo "Here \$foo" foo=\$((foo+1)) done exit 0 ~ ~ ~</pre>	 <pre>Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./while_for.sh Here 1 Here 2 Here 3 Here 4 Here 5 Here 6 Here 7 Here 8 Here 9 Here 10 Here 11 Here 12 Here 13 Here 14 Here 15 Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$</pre>

For_loop.sh	<pre> Tai-20520924@MSI: ~/HeDieuHanh/La... #!/bin/sh for foo in bar fud 13 do echo \$foo done exit 0 ~ ~ ~ 1,1 </pre>	<pre> Tai-20520924@MSI: ~/HeDieuHanh/La... Tai-20520924@MSI:~/HeDieuHanh/Lab02/ ./for_loop.sh bar fud 13 Tai-20520924@MSI:~/HeDieuHanh/Lab02/ </pre>
For_loop2.sh	<pre> Tai-20520924@MSI: ~/HeDieuHanh/La... #!/bin/sh for file in \$(ls f*.sh); do lpr \$file done ~ ~ ~ <op2.sh" 5L, 56C 1,1 All </pre>	<pre> Tai-20520924@MSI: ~/HeDieuHanh/La... Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./for_loop2.sh Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$ </pre>
Case1.sh	<pre> Tai-20520924@MSI: ~/HeDieuHanh/Lab02/Ch... #!/bin/sh echo "Is it morning? Please answer yes or no" read timeofday case "\$timeofday" in "yes") echo "Good Morning";; "no") echo "Good Afternoon";; "y") echo "Good Morning";; "n") echo "Good Afternoon";; *) echo "Sorry, answer not recognised";; esac exit 0 "case1.sh" 11L, 278C 10,5 All </pre>	<pre> Tai-20520924@MSI: ~/HeDieuHanh/La... Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./case1.sh Is it morning? Please answer yes or no 1 Sorry, answer not recognised Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./case1.sh Is it morning? Please answer yes or no yes Good Morning Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./case1.sh Is it morning? Please answer yes or no no Good Afternoon Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$ </pre>
Case2.sh	<pre> Tai-20520924@MSI: ~/HeDieuHanh/Lab02/ChuanBi #!/bin/sh echo "Is it morning? Please answer yes or no" read timeofday case "\$timeofday" in "yes" "y" "Yes" "YES") echo "Good Morning";; "n*" "N*") echo "Good Afternoon";; *) echo "Sorry, answer not recognised";; esac exit 0 ~ ~ ~ "case2.sh" 9L, 247C 7,29-36 All </pre>	<pre> Tai-20520924@MSI: ~/HeDieuHanh/Lab02/ChuanBi Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./case2.sh Is it morning? Please answer yes or no n Sorry, answer not recognised Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./case2.sh Is it morning? Please answer yes or no yes Good Morning Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./case2.sh Is it morning? Please answer yes or no n* Good Afternoon Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$ </pre>

Case3.sh	<pre> #l/bin/sh echo "Is it morning? Please answer yes or no" read timeofday case "\$timeofday" in "yes" "y" "Yes" "YES") echo "Good Morning" echo "Up bright and early this morning?" ;; [nN]*) echo "Good Afternoon" ;; *) echo "Sorry, answer not recognised" echo "Please answer yes or no" exit 1 ;; esac exit 0 ~ 2,1 All </pre>	<pre> Tai-20520924@MSI: ~/HeDieuHanh/Lab02/ChuanBi Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./case3.sh Is it morning? Please answer yes or no yes Good Morning Up bright and early this morning? Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./case3.sh Is it morning? Please answer yes or no Yes Good Morning Up bright and early this morning? Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./case3.sh Is it morning? Please answer yes or no no Good Afternoon Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./case3.sh Is it morning? Please answer yes or no n Good Afternoon Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./case3.sh Is it morning? Please answer yes or no a Sorry, answer not recognised Please answer yes or no Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$ </pre>
Until_user.sh	<pre> #l/bin/sh echo "Locate for user ..." until who grep "\$1" > /dev/null do sleep 60 done echo -e \\\a echo "***** \$1 has just logged in *****" exit 0 ~ 1,1 All </pre>	
Try_variable.sh	<pre> #l/bin/sh salutation="Hello" echo \$salutation echo "The program \$0 is now running" echo "The second parameter was \$2" echo "The first parameter was \$1" echo "The parameter list was \$" echo "The user's home directory is \$HOME" echo "Please enter a new greeting" read salutation echo \$salutation echo "The script is now complete" exit 0 ~ 1,9 All </pre>	<pre> Tai-20520924@MSI: ~/HeDieuHanh/Lab02/ChuanBi Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./try_variables.sh ls -la Hello The program ./try_variables.sh is now running The second parameter was -la The first parameter was ls The parameter list was ls -la The user's home directory is /home/Tai-20520924 Please enter a new greeting 20520924 20520924 The script is now complete Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$ </pre>
If_control.sh	<pre> #l/bin/sh echo "Is it morning? Please answer yes or no" read timeofday #chú ý khoảng trắng trước sau [và trước] if [\$timeofday = "yes"]; then echo "Good morning" else echo "Good afternoon" fi exit 0 ~ 1,8 All </pre>	<pre> Tai-20520924@MSI: ~/HeDieuHanh/Lab02/ChuanBi Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./if_control.sh Is it morning? Please answer yes or no no Good afternoon Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./if_control.sh Is it morning? Please answer yes or no yes Good morning Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./if_control.sh Is it morning? Please answer yes or no a Good afternoon Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$ </pre>

<p>Elif_control. sh</p>	 <pre>Tai-20520924@MSI: ~/HeDieuHanh/Lab02/ChuanBi #!/bin/sh echo "Is it morning? Please answer yes or no" read timeofday if [\$timeofday = "yes"]; then echo "Good morning" elif [\$timeofday = "no"]; then echo "Good afternoon" else echo "Sorry, \$timeofday not recognized. Enter yes or no" exit 1 fi</pre>	 <pre>Tai-20520924@MSI: ~/HeDieuHanh/Lab02/ChuanBi\$./elif_control.sh yes Is it morning? Please answer yes or no 1 Sorry, 1 not recognized. Enter yes or no Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./elif_control.sh yes Is it morning? Please answer yes or no yes Good morning Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./elif_control.sh yes Is it morning? Please answer yes or no no Good afternoon Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./elif_control.sh yes Is it morning? Please answer yes or no ./elif_control.sh: 4: [: =: unexpected operator ./elif_control.sh: 6: [: =: unexpected operator Sorry, not recognized. Enter yes or no Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$</pre>
<p>Elif_control 2.sh</p>	 <pre>Tai-20520924@MSI: ~/HeDieuHanh/Lab02/ChuanBi #!/bin/sh echo -n "Is it morning? Please answer yes or no: " read timeofday if ["\$timeofday" = "yes"]; then echo "Good morning" elif ["\$timeofday" = "no"]; then echo "Good afternoon" else echo "Sorry, \$timeofday not recognized. Enter yes or no" exit 1 fi exit 0</pre>	 <pre>Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./elif_control2.sh Is it morning? Please answer yes or no: yes Good morning Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./elif_control2.sh Is it morning? Please answer yes or no: no Good afternoon Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./elif_control2.sh Is it morning? Please answer yes or no: Sorry, not recognized. Enter yes or no Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$./elif_control2.sh Is it morning? Please answer yes or no: 1 Sorry, 1 not recognized. Enter yes or no Tai-20520924@MSI:~/HeDieuHanh/Lab02/ChuanBi\$</pre>

2. Viết chương trình cho phép nhập vào tên và mssv. Kiểm tra nếu mssv đó không trùng với mình thì bắt nhập lại. In ra màn hình kết quả.

```
#!/bin/sh
printf "xin nhap vao ten: "
read -r ten
printf "xin moi nhap mssv: "
read -r mssv
while [ "$mssv" != "20520924" ] || [ "$ten" != "Tai" ];
do
    if [ "$mssv" != "20520924" ];then
        printf "Ban Vua Nhap:%s \n" "$mssv"
        printf "Sai mssv roi! Nhap lai! \n"
        read -r mssv
    elif [ "$ten" != "Tai" ];then
        printf "Ban Vua Nhap:%s \n" "$ten"
        printf "Sai Ten roi! Nhap lai! \n"
    fi
done
```

```
        read -r ten
    fi
done
```

Kết quả:

```
root@MSI:/home/Tai-20520924/HeDieuHanh/Lab02# ./Bai2_lab02.sh
xin nhap vao ten: Tai
xin moi nhap mssv: 20520924
root@MSI:/home/Tai-20520924/HeDieuHanh/Lab02# ./Bai2_lab02.sh
xin nhap vao ten: Taii
xin moi nhap mssv: 20520924
Ban Vua Nhap:Taii
Sai Ten roi! Nhap lai!
Tai
root@MSI:/home/Tai-20520924/HeDieuHanh/Lab02# ./Bai2_lab02.sh
xin nhap vao ten: Tai
xin moi nhap mssv: 20520925
Ban Vua Nhap:20520925
Sai mssv roi! Nhap lai!
20520924
root@MSI:/home/Tai-20520924/HeDieuHanh/Lab02#
```

- Viết chương trình cho phép nhập vào một số n. Kiểm tra nếu $n < 10$ thì bắt nhập lại. Tính tổng các số từ 1 đến n. In kết quả ra màn hình.

```
#!/bin/sh

printf "Nhap n: "
read -r n
i=0
res=0
while [  $$(($i)) -lt  $$(($n))$  ]
do
    if [  $$(($n)) -lt 10$  ]; then
        printf "Nhap n(n>10): "
        read -r n
        continue
    else
        res=$((res+i))
        i=$((i+1))
    fi
done$ 
```

```
done
    printf "Tong cac so tu 1 - %s : result = %s \n" "$n" "$res"
exit 0
```

Kết quả

```
root@MSI:/home/Tai-20520924/HeDieuHanh/Lab02# ./Bai3_lab02.sh
Nhap n: 3
Nhap n(n>10): 11
Tong cac so tu 1 - 11 : result = 55
root@MSI:/home/Tai-20520924/HeDieuHanh/Lab02#
```

- Viết trình cho phép nhập vào một chuỗi. Kiểm tra chuỗi đó có tồn tại trong một file text (ví dụ test.txt) cùng thư mục hay không.

```
#!/bin/sh
if ! test -f ./"$1"; then
    printf "Tap tin %s khong ton tai\n" "$1"
    exit 0
fi
printf "Nhap Chuoi Can tim: "
read -r string
if grep -e "$string" ./"$1"; then
    printf "tim thay %s trong %s: \n" "$string" "$1"
else
    printf "Khong tim thay %s trong %s!\n" "$string" "$1"
fi
exit 1
```

```
root@MSI:/home/Tai-20520924/HeDieuHanh/Lab02# ./Bai4_lab02.sh text.txt
Nhap Chuoi Can tim: 20520924
20520924
tim thay 20520924 trong text.txt:
root@MSI:/home/Tai-20520924/HeDieuHanh/Lab02# ./Bai4_lab02.sh text.txt
Nhap Chuoi Can tim: 123
Khong tim thay 123 trong text.txt!
root@MSI:/home/Tai-20520924/HeDieuHanh/Lab02# ./Bai4_lab02.sh text.tx
Tap tin text.tx khong ton tai
root@MSI:/home/Tai-20520924/HeDieuHanh/Lab02#
```