D.D.P.S.Dayananda tg/2017/252 Operating System Concepts & Applications –ICT2213 Laboratory Assignment 5

Exercise 1

1)

```
ict_level2@ewis-EWISPro5700:~$ ./ex1.sh
Please enter your age: 24
That makes you over 8760 days old!
ict_level2@ewis-EWISPro5700:~$

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read -p "Please enter your age: " age
days=$[ $age * 365 ]
echo "That makes you over $days days old! "
```

Exercise 2 1)a)

```
ict_level2@ewis-EWISPro5700:~$ ./ex21a.sh

Have you ever visited Alabama?

Have you ever visited Arizona?

Have you ever visited Arkansas?

Have you ever visited Colorado?

ict_level2@ewis-EWISPro5700:~$ 

ex1.sh 

ex1.sh 

ist="Alabama Alaska Arizona Arkansas Colorado"

for state in $list

do

echo "Have you ever visited $state?"

done
```

b)

```
ict_level2@ewis-EWISPro5700:~/pawan$ ./ex21b.sh
Visit beautiful Alabama
Visit beautiful Alaska
Visit beautiful Arizona
Visit beautiful Arkansas
Visit beautiful Colorado
Visit beautiful Connecticut
Visit beautiful Delaware
Visit beautiful Florida
Visit beautiful Georgia
ict_level2@ewis-EWISPro5700:~/pawan$
            Ħ
          ex1.sh
                                     ex21a.sh
file="states.txt"
# can change the field separator using IFS=$'\n'
for state in $(cat $file)
do
         echo "Visit beautiful $state"
done
```

```
c)
             ict_level2@ewis-EWISPro5700:~/pawan$ ./ex21c.sh
             The next number is 1
             The next number is 2
             The next number is 3
             The next number is 4
             The next number is 5
             The next number is 6
             The next number is 7
             The next number is 8
             The next number is 9
             The next number is 10
             ict_level2@ewis-EWISPro5700:~/pawan$
                                    ex21b.sh
             for (( i=1; i <= 10; i++ ))</pre>
                      echo "The next number is $i"
             done
```

```
3)

52
56
60
64
68
72
76
80
84
88
92
96
100
ict_level2@ewis-EWISPro5700:~/pawan$ 

ex24.sh ×

var1=50
while [ $var1 -le 100 ]
do

if [ $[ $var1 % 4 ] -eq 0 ]
then
echo $var1
fi
```

done

var1=\$[\$var1 + 1]

ict_level2@ewis-EWISPro5700:~/pawan\$./ex23.sh

```
4)
              ict_level2@ewis-EWISPro5700:~/pawan$ ./ex24.sh
              The command is finished.
               ict_level2@ewis-EWISPro5700:~/pawan$
                                           ex24.sh
               Outer loop: 3
                Inner loop: 3 / 1 = 3.0000
                Inner loop: 3 / 2 = 1.5000
                Inner loop: 3 / 3 = 1.0000
                Inner loop: 3 / 4 = .7500
               Outer loop: 2
                Inner loop: 2 / 1 = 2.0000
                Inner loop: 2 / 2 = 1.0000
                Inner loop: 2 / 3 = .6666
                Inner loop: 2 / 4 = .5000
               Outer loop: 1
                Inner loop: 1 / 1 = 1.0000
                Inner loop: 1 / 2 = .5000
                Inner loop: 1 / 3 = .3333
                Inner loop: 1 / 4 = .2500
            ict_level2@ewis-EWISPro5700:~/pawan$ ./ex25.sh
5)
            Outer loop: 3
            Inner loop: 3 / 1 = 3.0000
Inner loop: 3 / 2 = 1.5000
Inner loop: 3 / 3 = 1.0000
Inner loop: 3 / 4 = .7500
            Outer loop: 2
Inner loop: 2 / 1 = 2.0000
            Inner loop: 2 / 2 = 1.0000
            Inner loop: 2 / 3 = .6666
Inner loop: 2 / 4 = .5000
Outer loop: 1
            Inner loop: 1 / 1 = 1.0000
            Inner loop: 1 / 2 = .5000
Inner loop: 1 / 3 = .3333
Inner loop: 1 / 4 = .2500
```

ict_level2@ewis-EWISPro5700:~/pawan\$

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ex23.sh

```
while read line
do
echo "$line"
done <test.txt
```

ex24.sh

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```
6)
           ict level2@ewis-EWISPro5700:~/pawan$ ./ex26.sh
           Outer loop: 1
            Inner loop: 1
            Inner loop: 2
            Inner loop: 3
            Inner loop: 4
           Outer loop: 2
            Inner loop: 1
            Inner loop: 2
            Inner loop: 3
            Inner loop: 4
           Outer loop: 3
            Inner loop: 1
Inner loop: 2
            Inner loop: 3
            Inner loop: 4
           ict_level2@ewis-EWISPro5700:~/pawan$
                       Æ.
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                         exe5a.sh
                                             ×
                                                              ex25
           for (( a = 1; a < 4; a++ ))
           do
                   echo "Outer loop: $a"
                   for ((b = 1; b < 100; b++))
                   do
                            if [ $b -gt 4 ]
                            then
                                     break
                            fi
                            echo " Inner loop: $b"
                   done
           done
```

Exercise 3 1)

ict_level2@ewis-EWISPro5700:~/pawan\$./ex3.sh 1 2 3 4 5 6 7 8 9 10 11 12 ./ex3.sh is script name 1 is first argument The ninth argumentis 9 The tenth argumentis 10 The eleventh argumentis 11 Total number of command line argument are 12 All arguments are 1 2 3 4 5 6 7 8 9 10 11 12 All arguments are 1 2 3 4 5 6 7 8 9 10 11 12 The total is 110 ict_level2@ewis-EWISPro5700:~/pawan\$ exe5a.sh ex25.sh ex26.sh echo "\$0 is script name" echo "\$1 is first argument" echo "The ninth argumentis \$9" echo "The tenth argumentis \${10}" echo "The eleventh argumentis \${11}" echo "Total number of command line argument are \$#" echo "All arguments are \$*" echo "All arguments are \$@" total=\$[\${10} * \${11}] echo The total is \$total

```
Exercise 4
```

```
ict_level2@ewis-EWISPro5700:~/pawan$ ./ex41.sh
1)
         This line comes before the function definition
         This is an example of a function
         This is the end of the loop
         This is an example of a function
         Now this is the end of the script
         ict_level2@ewis-EWISPro5700:~/pawan$
                exe5a.sh
         count=1
         echo "This line comes before the function definition"
         function func1 {
                 echo "This is an example of a function"
         }
         while [ $count -le 5 ]
         do
                 func1
                 count=$[ $count + 1 ]
         done
         echo "This is the end of the loop"
         function func2 {
                 echo "This is an example of a function"
         func2
         echo "Now this is the end of the script"
```