**LINUX & Shell Programming Lab Assignment – 07**

**[Your home directory is your current working directory]**

1. Write a shell script to find largest of two numbers.

#!/bin/bash

echo "enter first number"

read n1

echo "enter second number"

read n2

if [ $n1 -gt $n2 ]

then

echo "$n1 is bigger"

else

echo "$n2 is bigger"

fi

**OUTPUT:-**

pc-171@gehu-HP-EliteDesk-800-G2-SFF:~/Desktop/RAWATAMIT$ bash 7a.sh

enter first number

53

enter second number

41

53 is bigger

1. Write a shell script to find largest of three numbers.

#!/bin/bash

echo "enter first number"

read n1

echo "enter second number"

read n2

echo "enter third number"

read n3

if [ $n1 -gt $n2 ]

then

if [ $n1 -gt $n3 ]

then

echo "$n1 is bigger"

else

echo "$n3 is bigger"

fi

else

if [ $n2 -gt $n3 ]

then

echo "$n2 is bigger"

else

echo "$n3 is bigger"

fi

fi

**OUTPUT:-**

pc-171@gehu-HP-EliteDesk-800-G2-SFF:~/Desktop/RAWATAMIT$ bash 7b.sh

enter first number

15

enter second number

40

enter third number

33

40 is bigger

pc-171@gehu-HP-EliteDesk-800-G2-SFF:~/Desktop/RAWATAMIT$ bash 7b.sh

enter first number

50

enter second number

60

enter third number

70

70 is bigger

1. Write a shell script to check that given number is even or odd.

#!/bin/bash

echo "enter number"

read n

a=`expr $n % 2`

if [ $a == 0 ]

then

echo "number $n is even"

else

echo "number $n is odd"

fi

**OUTPUT:-**

pc-171@gehu-HP-EliteDesk-800-G2-SFF:~/Desktop/RAWATAMIT$ bash 7c.sh

enter number

6

number 6 is even

pc-171@gehu-HP-EliteDesk-800-G2-SFF:~/Desktop/RAWATAMIT$ bash 7c.sh

enter number

5

number 5 is odd

1. Write a shell script to check that given number is divisible by three or not.

#!/bin/bash

echo "enter number"

read n

a=`expr $n % 3`

if [ $a == 0 ]

then

echo "number $n is divisible by 3"

else

echo "number $n is not divisible by 3"

fi

**OUTPUT:-**

pc-171@gehu-HP-EliteDesk-800-G2-SFF:~/Desktop/RAWATAMIT$ bash 7dsh

enter number

6

number 6 is divisible by 3

pc-105@gehu-HP-EliteDesk-800-G2-SFF:~/sagar$ bash 7d.sh

enter number

82

number 82 is not divisible by 3

1. Write a shell script to check that given two files are identical or not. The script should produce customized output i.e. the default output of the command used in the script should not be displayed on the screen.

#!/bin/bash

echo "enter name of file 1"

read f1

echo "enter name of file 2"

read f2

cmp $f1 $f2>file.txt

if [ -f $file]

then

echo "file is differ"

else

echo "file is same"

fi

**OUTPUT:-**

pc-171@gehu-HP-EliteDesk-800-G2-SFF:~/Desktop/RAWATAMIT$ bash 7e.sh

enter name of file 1

7b.sh

enter name of file 2

7c.sh

file is differ

1. Write a shell script to check that command line arguments are passed to the script or not.

#! /bin/bash

sum=`expr $1 + $2`

echo "$sum"

**OUTPUT:-**

pc-171@gehu-HP-EliteDesk-800-G2-SFF:~/Desktop/RAWATAMIT$ bash 7\_6.sh 2 3

5

1. Write a menu based shell script for arithmetic operations on given two numbers.

#! /bin/bash

echo "Enter two numbers:"

read a b

echo "Enter your choice:"

echo "1. ADDITION"

echo "2. SUBTRACTION"

echo "3. MULTIPLICATION"

echo "4. DIVISION"

read ch

case $ch in

1)res=`echo $a + $b |bc`

;;

2)res=`echo $a - $b |bc`

;;

3)res=`echo $a \\* $b |bc`

;;

4)res=`echo "scale=2; $a/$b"|bc`

;;

esac

echo "Result: $res"

**OUTPUT:-**

pc-171@gehu-HP-EliteDesk-800-G2-SFF:~/Desktop/RAWATAMIT$ bash 7f.sh

Enter two numbers:

3 4

Enter your choice:

1. ADDITION

2. SUBTRACTION

3. MULTIPLICATION

4. DIVISION

1

Result: 7

pc-171@gehu-HP-EliteDesk-800-G2-SFF:~/Desktop/RAWATAMIT$ bash 7f.sh

Enter two numbers:

5 2

Enter your choice:

1. ADDITION

2. SUBTRACTION

3. MULTIPLICATION

4. DIVISION

2

Result: 3

pc-171@gehu-HP-EliteDesk-800-G2-SFF:~/Desktop/RAWATAMIT$ bash 7f.sh

Enter two numbers:

3 2

Enter your choice:

1. ADDITION

2. SUBTRACTION

3. MULTIPLICATION

4. DIVISION

3

Result: 6

pc-171@gehu-HP-EliteDesk-800-G2-SFF:~/Desktop/RAWATAMIT$ bash 7f.sh

Enter two numbers:

4 3

Enter your choice:

1. ADDITION

2. SUBTRACTION

3. MULTIPLICATION

4. DIVISION

4

Result: 1.33

1. Write a shell script to compare given two strings.

#! /bin/bash

echo "Enter string1:"

read str1

echo "Enter string2:"

read str2

if [ $str1 == $str2 ]

then

echo "Strings are equal."

else

echo "Strings are not equal."

fi

**OUTPUT:-**

pc-171@gehu-HP-EliteDesk-800-G2-SFF:~/Desktop/RAWATAMIT$ bash 7g.sh

Enter string1:

amit

Enter string2:

amit

Strings are equal.

pc-171@gehu-HP-EliteDesk-800-G2-SFF:~/Desktop/RAWATAMIT$ bash 7h.sh

Enter string1:

amit

Enter string2:

rwt

Strings are not equal.

1. Write a shell script to check that given string is null or not.

#! /bin/bash

echo "Enter string:"

read str

if [ -z $str ]

then

echo "String is null."

else

echo "String is not null."

fi

**OUTPUT:-**

pc-171@gehu-HP-EliteDesk-800-G2-SFF:~/Desktop/RAWATAMIT$ bash 7i.sh

Enter string:

amit

String is not null.

pc-171@gehu-HP-EliteDesk-800-G2-SFF:~/Desktop/RAWATAMIT$ bash 7i.sh

Enter string:

String is null.

1. Write a shell script to display given string in upper case only on the screen when its length is greater than 5 characters otherwise display the string in lower case.

#! /bin/bash

echo "Enter string:"

read str

len=`echo -n $str | wc -m`

if [ $len -gt 5 ]

then

echo "${str^^}"

else

echo "${str,,}"

fi

**OUTPUT:-**

pc-171@gehu-HP-EliteDesk-800-G2-SFF:~/Desktop/RAWATAMIT$ bash 7\_10.sh

Enter string:

amit

AMIT

pc-171@gehu-HP-EliteDesk-800-G2-SFF:~/Desktop/RAWATAMIT$ bash 7\_10.sh

Enter string:

HI