**1.Read a single digit number and write the number**

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$ nano single.sh

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$ cat single.sh

read -p "enter a number :" x

case "$x" in

"00")

echo " this number is zero"

;;

"1")

echo " this number is one!"

;;

"2")

echo "this number is two!!"

;;

"3")

echo "this number is three!!!"

;;

"4")

echo" this number is four!!!!"

;;

\*)

echo " enter valid number "

;;

esac

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$ bash -x single.sh

+ read -p 'enter a number :' x

enter a number :00

+ case "$x" in

+ echo ' this number is zero'

this number is zero

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$ bash -x single.sh

+ read -p 'enter a number :' x

enter a number :1

+ case "$x" in

+ echo ' this number is one!'

this number is one!

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$ bash -x single.sh

+ read -p 'enter a number :' x

enter a number :2

+ case "$x" in

+ echo 'this number is two!!'

this number is two!!

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$ bash single.sh

enter a number :3

this number is three!!!

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$ bash single.sh

enter a number :4

single.sh: line 16: echo this number is four!!!!

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$ nano single.sh

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$ bash single.sh

enter a number :4

this number is four!!!!

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$ bash single.sh

enter a number :5 enter valid number

**2. Read a Number and Display the week day (Sunday, Monday,…)**

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$ nano week.sh

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$ cat week.sh

read -p " enter day" x

case "$x" in

"1")

echo "its monday"

;;

"2")

echo "its tuesday"

;;

"3")

echo "its wednesday"

;;

"4")

echo "its thursday"

;;

"5")

echo "its friday"

;;

"6")

echo "its saturdayy!!!"

;;

"7")

echo "its sunday!!!!"

;;

\*)

echo " enter a valid day"

esac

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$ bash -x week.sh

+ read -p ' enter day' x

enter day1

+ case "$x" in

+ echo 'its monday'

its monday

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$ bash -x week.sh

+ read -p ' enter day' x

enter day2

+ case "$x" in

+ echo 'its tuesday'

its tuesday

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$ bash week.sh

enter day3

its wednesday

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$ bash week.sh

enter day4

its thursday

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$ bash week.sh

enter day5

its friday

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$ bash week.sh

enter day6

its saturdayy!!!

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$ bash week.sh

enter day7

its sunday!!!!

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$ bash week.sh

enter day8

enter a valid day

**Read a number 1,10,100 and display one ,tenth etc using case**

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$ cat bash number.sh

cat: bash: No such file or directory

read -p "enter a number" x

case "$x" in

"1")

echo "its a unit number"

;;

"10")

echo "its a tenth number "

;;

"100")

echo " its a hundredth number "

;;

"1000")

echo " its a thousandth number"

;;

\*)

echo " enter a valid number "

;;

esac

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$ bash -x number.sh

+ read -p 'enter a number' x

enter a number1

+ case "$x" in

+ echo 'its a unit number'

its a unit number

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$ bash -x number.sh

+ read -p 'enter a number' x

enter a number10

+ case "$x" in

+ echo 'its a tenth number '

its a tenth number

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$ bash number.sh

enter a number100

its a hundredth number

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$ bash number.sh

enter a number1000

its a thousandth number

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$ bash number.sh

enter a number10000

enter a valid number

**Write a program which user input and does it convertion**

1. **Feet to inch;**

$ cat feettoinch.sh

read -p " enter inch " x

case "$x" in

"$x")

echo "enter feet to convert inch :

$(($x\*12))"

;;

esac

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$ bash -x feettoinch.sh

+ read -p ' enter inch ' x

enter inch 5

+ case "$x" in

+ echo 'enter feet to convert inch :

60'

enter feet to convert inch :

60

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$ bash feettoinch.sh

enter inch 10

enter feet to convert inch :

120

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$ bash feettoinch.sh

enter inch 15

enter feet to convert inch :

180

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$ bash feettoinch.sh

enter inch 20

enter feet to convert inch :

240

**b.Write a program to flip a coin and prints head/tails**

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$ cat coin.sh

read -p "flip a coin" x

if [ $x == 1 ]

then

echo " its head !!"

else

echo " its tail "

fi

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$ bash -x coin.sh

+ read -p 'flip a coin' x

flip a coin1

+ '[' 1 == 1 ']'

+ echo ' its head !!'

its head !!

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$ bash -x coin.sh

+ read -p 'flip a coin' x

flip a coin2

+ '[' 2 == 1 ']'

+ echo ' its tail '

its tail

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$ bash coin.sh

flip a coin1

its head !!

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$ bash coin.sh

flip a coin2

its tail

**1. write a program to print min or max numbers using if**

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$ nano minmax.sh

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$ cat minmax.sh

read -p "enter a number" x

if [ $x == 100 ]

then

echo "$x is min"

else

echo "$x is max"

fi

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$ nano -x minmax.sh

Vanishree@LAPTOP-9VLT2MT4 MINGW64 ~/Documents/bridgelab

$ bash -x minmax.sh

+ read -p 'enter a number' x

enter a number100

+ '[' 100 == 100 ']'

+ echo '100 is min'

100 is min

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$ bash -x minmax.sh

+ read -p 'enter a number' x

enter a number200

+ '[' 200 == 100 ']'

+ echo '200 is max'

200 is max

Write a program to using if else for leap year

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$ nano leapyear.sh

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$ cat leapyear.sh

read -p " enter year" year

if [ $(($year % 4)) == 0 ]

then

echo " its a leap year "

else

echo " its not a leap year "

fi

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$ bash -x leapyear.sh

+ read -p ' enter year' year

enter year1996

+ '[' 0 == 0 ']'

+ echo ' its a leap year '

its a leap year

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$ bash -x leapyear.sh

+ read -p ' enter year' year

enter year2000

+ '[' 0 == 0 ']'

+ echo ' its a leap year '

its a leap year

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$ bash leapyear.sh

enter year2021

its not a leap year

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$ bash leapyear.sh

enter year2022

its not a leap year