**Problems with case statement**

**1. Read a single digit number and write the number in word using Case**

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$ nano case.sh

#!/bin/bash

echo "enter a number"

read number

case $number in

1) echo "one."

;;

2) echo "two."

;;

3) echo "three."

;;

4) echo "four."

;;

5) echo "five"

;;

6) echo "six."

;;

7) echo "seven."

;;

8) echo "eight."

;;

9) echo "nine"

;;

0) echo "zero."

;;

\*) echo "default."

esac

output:

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$ ./case.sh

enter a number

89

default.

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$ ./case.sh

enter a number

0

zero.

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

#! /bin/bash -x

#display weekdays in words

echo enter a number

read num

case $num in

1)echo sunday;;

2)echo monday;;

3)echo tuesday;;

4)echo wednesday;;

5)echo thursday;;

6)echo friday;;

7)echo saturday;;

\*)echo error;;

esac

output:

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$ ./caseproblem1.sh

+ echo enter a number

enter a number

+ read num

3

+ case $num in

+ echo tuesday

tuesday

**3. Read a Number 1, 10, 100, 1000, etc and display unit, ten, hundred,...**

#!/bin/bash -x

echo "enter numbers 1, 10, 100, 1000: "

read a

case $a in

1) echo unit ;;

10) echo ten ;;

100) echo hundred ;;

1000) echo thousand ;;

esac

output:

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$ ./case3.sh

+ echo 'enter numbers 1, 10, 100, 1000: '

enter numbers 1, 10, 100, 1000:

+ read a

10

+ case $a in

+ echo ten

ten

**4. Write a program that takes User Inputs and does Unit Conversion of different Length units**

**1. Feet to Inch 3. Inch to Feet**

**2. Feet to Meter 4. Meter to Feet**

#! /bin/bash -x

echo "enter 1 for inch to feet "

echo "enter 2 for feet to inches"

echo "enter 3 for feet to meter"

echo "enter 4 for meter to feet "

echo "enter a number "

read number

echo "enter a digit to convert"

read digit

case $number in

1)

new\_value=$(( $digit / 12 ))

echo $new\_value

;;

2)

new\_value=$(( $digit \* 12 ))

echo $new\_value

;;

3)

new\_value=`awk "BEGIN{print (( $digit / 3.281 ))}"`

echo $new\_value

;;

4)

new\_value=`awk "BEGIN{print (( $digit \* 3.281 ))}"`

echo $new\_value

;;

\*) echo "I don't know how to convert "

;;

esac

output:

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$ ./case4.sh

+ echo 'enter 1 for inch to feet '

enter 1 for inch to feet

+ echo 'enter 2 for feet to inches'

enter 2 for feet to inches

+ echo 'enter 3 for feet to meter'

enter 3 for feet to meter

+ echo 'enter 4 for meter to feet '

enter 4 for meter to feet

+ echo 'enter a number '

enter a number

+ read number

4

+ echo 'enter a digit to convert'

enter a digit to convert

+ read digit

6

+ case $number in

++ awk 'BEGIN{print (( 6 \* 3.281 ))}'

+ new\_value=19.686

+ echo 19.686

19.686

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$ ./case4.sh

+ echo 'enter 1 for inch to feet '

enter 1 for inch to feet

+ echo 'enter 2 for feet to inches'

enter 2 for feet to inches

+ echo 'enter 3 for feet to meter'

enter 3 for feet to meter

+ echo 'enter 4 for meter to feet '

enter 4 for meter to feet

+ echo 'enter a number '

enter a number

+ read number

1

+ echo 'enter a digit to convert'

enter a digit to convert

+ read digit

24

+ case $number in

+ new\_value=2

+ echo 2

2