SEQUENCE AND SELECTION

Assignment Day 5 Prob 1 and Prob 2

SEQUENCE

1. Use Random Function (( RANDOM )) to get single digit.

$echo $( 1 + $RANDOM %9)

1. Use Random to get dice no from 1 to 6

rolldie( )

{

Local result=$1

rolled=$( ( ( $RANDOM%6 ) + 1 ) )

Eval $result=$rolled

}

1. Write a program that reads 5 Random 2 Digit values, then find their sum and average.

Echo “Enter size (N)”

Read N

i=1

sum=0

Echo “Enter Numbers”

While [ $i - le $N ]

Do

Read num

Sum = $ ( ( sum + num ))

i = $ ( ( i + 1 ))

Done

Avg = $ ( echo $sum / sum $N | bc - 1 )

Echo $avg

SELECTION

1. Write a program that takes day and month from command line and prints true if day of month is between March 20 and June 20, false otherwise.

Def month\_date (month,date)

If

Date == ‘March20’ or date=’June20’

Then

Echo “true”

Else if

month=’January’ or month=’February’ or month=’April’ or month = ‘May’ or month=’July’

Echo “false”

1. Write a program that takes a year as input and outputs the year is a leap year or not a leap year. A leap year checks for 4 digit number divisible by 4 and not 100 unless divisible by 400.

Echo -n “Enter year (YYYY):”

Read y

a= ‘expr $y%4’

b= ‘expr $y%100’

c= ‘expr $y%400’

If [ $a -eq 0 -a $b -ne 0 -0 $c -eq 0]

Then

Echo “$y is leap year”

Else

Echo “$y is not leap year”

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3.Write a program to simulate a coin flip and print out “Heads” or “Tails” accordingly.

#!/bin/bash

Result=$ ( ( RANDOM %2 ) )

If [ [ $ { Result } - eq 0 ] ] ; then

Echo HEADS

Elif [ [ $ { Result } -eq 1 ] ] ; then

Echo TAILS

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