**1. Use Random Function (( RANDOM )) to get Single Digit**

#!/bin/bash –x

# %10 for 0 to 9

randomNum=$((RANDOM%10))

echo "Random single digit : $randomNum"

**2. Use Random to get Dice Number between 1 to 6**

randomNum=$((RANDOM%6))

diceValue=$(($randomNum+1))

echo "Random dice value : $diceValue"

**3. Add two Random Dice Numbers and Print the Result**

randomNum1=$((RANDOM%6+1))

randomNum2=$((RANDOM%6+1))

Addition=$(($randomNum1+$randomNum2))

echo "2 Dice value Addition : $Addition"

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

counter=1

echo "Random 5 numbers are - "

while [ $counter -le 5 ]

do

randomNum=$(($((RANDOM%90))+10))

printf "$randomNum \t"

sum=$(($sum+$randomNum))

((counter++))

done

printf "\nSum is : $sum \t Average is : "

avg= awk -v sum=$sum -v totalnum=5 'BEGIN {print (sum / totalnum)}'

**5. Unit Conversion**

**a. 1ft = 12in then 42in = ? ft**

**b. Rectangular Plot of 60 feet x 40 feet in meters**

**c. Calculate area of 25 such plots in acres**

printf "1] 1 ft = 12 inch, 42 inch = "

answer= awk -v ftinch=12 -v chkinch=42 'BEGIN { print (chkinch/ftinch) " ft " }'

#1sqm=10.764sqft

area\_sqft=$((60\*40))

printf "2] area in sqft = $area\_sqft sqft"

printf "\t area in sqm = "

awk -v ftarea=$area\_sqft -v onesqmt=10.764 'BEGIN { print ftarea/onesqmt " sqm " }'

#1acre=43560sqft

printf "3] area of 25 plots in acre : "

awk -v oneacre=43560 'BEGIN { print (60\*40\*25)/oneacre " acre " }'