**1. USE RANDOM FUNCTION *(( RANDOM ))* TO GET SINGLE DIGIT**

$ echo ${RANDOM:0:1}

**2. USE RANDOM TO GET DICE NUMBER BETWEEN 1 TO 6**

$ echo $(( $RANDOM % 6 + 1 ))

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**3. ADD TWO RANDOM DICE NUMBER AND PRINT THE RESULT**

#!/bin/bash -x

dice1=$(( $RANDOM % 6 + 1 ));

dice2=$(( $RANDOM % 6 + 1 ));

sum=$(( $a + $b )) ;

echo "sum of 2 dice = $sum";

$ ./randomuse.sh

+ dice1=3

+ dice2=3

+ sum=6

+ echo 'sum of 2 dice = 6'

sum of 2 dice = 6

**4. WRITE A PROGRAM THAT READS 5 RANDOM 2 DIGIT VALUES , THEN FIND THEIR SUM AND THE AVERAGE.**

#!/bin/bash -x

num1=$(( $RANDOM % 90 + 10 ));

num2=$(( $RANDOM % 90 + 10 ));

num3=$(( $RANDOM % 90 + 10 ));

num4=$(( $RANDOM % 90 + 10 ));

num5=$(( $RANDOM % 90 + 10 ));

sum=$(( $num1+$num2+$num3+$num4+$num5 ));

echo "sum of 5 random numbers = $sum";

avg=$(( sum/5 ));

echo "average = $avg";

$ ./randomexp.sh

+ num1=84

+ num2=86

+ num3=31

+ num4=49

+ num5=91

+ sum=341

+ echo 'sum of 5 random numbers = 341'

sum of 5 random numbers = 341

+ avg=68

+ echo 'average = 68'

average = 68

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| #a. conversion of inches in feet |
|  | inch=42; |
|  | ft=$((inch/12)); |
|  | echo '42 Inches in ft = '$ft |
|  |  |
|  | #b. Area of square feet in square meter |
|  | a=60; |
|  | b=40; |
|  | area=$(($a\*$b/11)); |
|  | echo 'Area of rectangular plot in square meter = '$area |
|  |  |
|  | #c.Area of square meter in acres |
|  | x=$((25\*$area/4047)); |
|  | echo 'Area of 25 plots in acres is '$x |
|  |  |