```
Prob1:
```

Q1

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

Ans 1:

```
pc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob1
$ cat rando.sh
#!/bin/bash -x

randomCheck=$((RANDOM%10))
echo $randomCheck
pc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob1
$ bash rando.sh

pc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob1
$ bash rando.sh
```

Q2

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

Ans2

```
pc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob1
$ cat dice.sh
#!/bin/bash -x

randomCheck=$((RANDOM%6))
echo $randomCheck
pc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob1
$ bash dice.sh
3

pc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob1
$ bash dice.sh
5

pc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob1
$ bash dice.sh
5

pc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob1
$ bash dice.sh
3

pc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob1
$ bash dice.sh
3
```

Q3

3. Add two Random Dice Number and Print the Result

Ans

```
#!/bin/bash -x

dice1=$((RANDOM%6))
dice2=$((RANDOM%6))
sum=$((dice1-dice2))
echo $sum
pc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob1
$ bash res.sh
6

pc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob1
$ bash res.sh
2

pc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob1
$ bash res.sh
4

pc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob1
$ bash res.sh
5
```

Q4

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

Ans

```
$ cat sumavg.sh
#!/bin/bash -x

one=$((RANDOM%99))
two=$((RANDOM%99))
four=$((RANDOM%99))
four=$((RANDOM%99))
five=$((RANDOM%99))
five=$((RANDOM%99))
sum=$(($cone-$two-$three+$four+$five))
avg=$(($sum/5))
echo "The sum of two number is: " $sum
echo "The avg of two number is: " $avg
pc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob1
$ bash sumavg.sh
The sum of two number is: 292
The avg of two number is: 58

pc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob1
$ bash sumavg.sh
The sum of two number is: 292
The avg of two number is: 229
The avg of two number is: 229
The avg of two number is: 45
```

Q5

- 5. Unit Conversion
 - a. 1ft = 12 in then 42 in = ? ft
 - b. Rectangular Plot of 60 feet x 40 feet in meters
 - c. Calculate area of 25 such plots in acres

```
pc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob1
$ cat ftinc.sh
#!/bin/bash -x

a=42
c=$(($a/12))
echo $c
pc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob1
$ bash ftinc.sh
3
```

Prob 2

Part 1

Q3

 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.

Ans

```
pc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob2/prob1
5 cat ifei3.sh
#/bin/bash ~x
#echo "Enter the year (YYYY)"
#read year
read ~p "Enter year" year
if [ $(Cyear % 40)) -eq 0 ]
then
    [ $(Cyear % 40)) -eq 0 ]
then
    if [ $(Cyear % 400)) -eq 0 ]
then
    echo "its a leap year"
    else echo "its a leap year"
    fi
else
    is not a leap year"

# con "Its a leap year"

# con "Its
```

Q4

4. Write a program to simulate a coin flip and print out "Heads" or "Tails" accordingly.

Q1

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

Ans

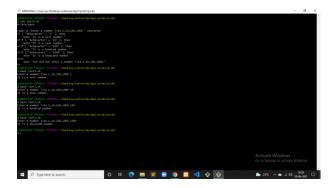
Q2

- T. Nead a single digit number and write the number in word
- 2. Read a Number and Display the week day (Sunday, Monday,...)
- 2 Pood a Number 1 10 100 1000 etc and display unit ton hun

Q3

- z. kead a Number and Display the week day (Sunday, Ivionday,...)
- 3. Read a Number 1, 10, 100, 1000, etc and display unit, ten, hundred,...
- 4 Enter 3 Numbers do following arithmetic operation and find the one

Ans



Part 3

Q1

DITO

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

```
pcoDESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob2/prob3
5 cat ikell.sh
#/bin/bash

read -p "Enter a number between 1 and 10 " character
case Scharacter in
1) echo "You entered one."
2) echo "You entered two."
3) echo "You entered three."
4) echo "You entered four."
5) echo "You entered five."
6) echo "You entered five."
7) echo "You entered seven."
7) echo "You entered seven."
7) echo "You entered seven."
8) echo "You entered nine."
9) echo "You entered nine."
10) echo "You did not enter a number between 1 and 10."

esac
pcoDESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob2/prob3
5 bash ikell.sh
Enter a number between 1 and 10 4
You entered four.

pcoDESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob2/prob3
5 bash ikell.sh
Enter a number between 1 and 10 8
You entered eight.

pcoDESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob2/prob3
5 bash ikell.sh
Enter a number between 1 and 10 5
You entered eight.

pcoDESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob2/prob3
5 bash ikell.sh
Enter a number between 1 and 10 5
You entered Fibe.

pcoDESKTOP-PPEAK47 MINGW64 ~/Desktop/codinclub/day5/prob2/prob3
5 bash ikell.sh
Enter a number between 1 and 10 11
You did not enter a number between 1 and 10.
```

- T. Incau a single digit number and write the number in word using
- 2. Read a Number and Display the week day (Sunday, Monday,...)
- 2 Boad a Number 1 10 100 1000 stoand display unit ton hun-

Ans

```
Settleston-PRAMAY "Ilmost4 -/Desktop/codinclub/days/prob2/prob3 bit et 1982/25 bi
```

Q3

- 2. nead a Nulliber and Display the week day (Sunday, Monday,...)
- 3. Read a Number 1, 10, 100, 1000, etc and display unit, ten, hundred,...
- 4 Write a program that takes User Inputs and does Unit Conversion of

```
SKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob2/prob3
 cat ikel3.sh
!/bin/bash
ead -p "Enter a number like 1,10,100,1000 " character
ase $character in
1 ) echo "You entered number one and it is ones."
   i;
10 ) echo "You entered number ten and it is tens."
   100 ) echo "You entered number hundred and it is hundreds."
   1000 ) echo "You entered number thousand and it is thousands."
   *) echo "You did not enter a number between 1 to 7."
               P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob2/prob3
bash ikel3.sh
inter a number like 1,10,100,1000 1
ou entered number one and it is ones.
              P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob2/prob3
b bash ikel3.sh
inter a number like 1,10,100,1000 10
ou entered number ten and it is tens.
bash ikel3.sh
inter a number like 1,10,100,1000 100
ou entered number hundred and it is hundreds.
  @DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob2/prob3
bash ikel3.sh
nter a number like 1,10,100,1000 1000
ou entered number thousand and it is thousands.
ocaDESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclub/day5/prob2/prob3
bash ikel3.sh
inter a number like 1,10,100,1000 100000
You did not enter a number between 1 to 7.
```

- Write a program that takes User Inputs and does Unit Conversion of different Length units
 - 1. Feet to Inch
- 3. Inch to Feet
- Feet to Meter
- Meter to Feet

```
c@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclubb/day5/prob2/prob3
$ cat ikel4.sh
#!/bin/bash
read -p "Enter a number" a
read -p "Enter a number between 1 to 4 " character
case $character in
   1)
         b=$(($a*12))
         echo "the unit conversion of Feet to inch is " $b
         b=$(($a/12)) echo "the unit conversion of inch to feet is " $b
          b='awk " BEGIN { print $a*0.3048 } "'
         echo "the unit conversion of feet to meter is " $b
         b=`awk " BEGIN { print $a/0.3048 } "`
         echo "the unit conversion of meter to feet is " $b
   * ) echo "You did not enter a number between 1 to 7."
esac
 c@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclubb/day5/prob2/prob3
$ bash ikel4.sh
Enter a number2
Enter a number between 1 to 4 1
the unit conversion of Feet to inch is 24
oc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclubb/day5/prob2/prob3
$ bash ikel4.sh
Enter a number2
Enter a number between 1 to 4 3
the unit conversion of feet to meter is 0.6096
pc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclubb/day5/prob2/prob3
$ bash ikel4.sh
Enter a number2
Enter a number between 1 to 4 4
the unit conversion of meter to feet is 6.56168
oc@DESKTOP-P9EAK47 MINGW64 ~/Desktop/codinclubb/day5/prob2/prob3
$
```