**SYSTEM CONFIGURATION**

Vignesh Murali

S4 CSE-C 59

echo "current shell: $SHELL"

echo "current home directory: $HOME"

echo "current working directory: $PWD"

**SAMPLE OUTPUT**

current shell: /bin/bash

current home directory: /home/stud

current working directory: /home/stud/vigu

**SIMPLE CALCULATOR**

Vignesh Murali

S4 CSE-C 59

echo "1:addition 2:subtraction 3: multiplication 4: division 5: modulus 6: exit "

n=1

while((n!=0))

do

echo "enter the choice "

read ch

case $ch in

"1")

echo "first number"

read a

echo "second number"

read b

echo “result”

ad=$(($a + $b))

echo " $ad "

;;

"2")

echo "first number"

read a

echo "second number"

read b

echo “result”

su=$(( $a - $b ))

echo " $su "

;;

"3")

echo "first number"

read a

echo "second number"

read b

echo “result”

mu=$(( $a \* $b ))

echo " $mu "

;;

"4")

echo "first number"

read a

echo "second number"

read b

echo “result”

di=$(echo "scale=2;($a/$b)"|bc)

echo "$di"

;;

"5")

echo "first number"

read a

echo "second number"

read b

echo “result”

mo=$(( $a % $b ))

echo " $mo "

;;

"6")

n=0

;;

\*)

echo "invalid option"

;;

esac

done

**SAMPLE OUTPUT**

1:addition 2:subtraction 3: multiplication 4: division 5: modulus 6: exit

enter the choice

1

first number

2

second number

3

result

5

enter the choice

2

first number

5

second number

4

result

1

enter the choice

3

first number

2

second number

3

result

6

enter the choice

4

first number

10

second number

5

result

2.00

enter the choice

5

first number

10

second number

5

result

0

enter the choice

6

**ODD NUMBER AND EVEN NUMBER**

Vignesh Murali

S4 CSE-C 59

echo "read a number "

read a

if(( $a %2==0))

then

echo "$a is even"

else

echo "$a is odd"

fi

**SAMPLE OUTPUT**

read a number

2

2 is even

read a number

5

5 is odd

**FACTORIAL OF A NUMBER**

Vignesh Murali

S4 CSE-C 59

echo "enter a number"

read n

fact=1

for ((i=2;i<=n;i++))

{

fact=$((fact\*i))

}

echo "factorial of $n is"

echo "$fact"

**SAMPLE OUTPUT**

enter a number

6

factorial of 6 is

720

**LARGEST AND SMALLEST NUMBERS**

Vignesh Murali

S4 CSE-C 59

echo "enter the first numbers"

read x

echo "enter the second numbers"

read y

echo "enter the third numbers"

read z

if [ $x -gt $y ] && [ $x -gt $z ]

then

echo "$x is the largest number"

elif [ $y -gt $x ] && [ $y -gt $z ]

then

echo "$y is the largest number"

else

echo "$z is the largest number"

fi

if [ $x -lt $y ] && [ $x -lt $z ]

then

echo "$x is the smallest number"

elif [ $y -lt $x ] && [ $y -lt $z ]

then

echo "$y is the smallest number"

else

echo "$z is the smallest number"

fi

**SAMPLE OUTPUT**

enter the first numbers

30

enter the second numbers

20

enter the third numbers

10

30 is the largest number

10 is the smallest number

**SUM OF NATURAL NUMBERS**

Vignesh Murali

S4 CSE-C 59

echo "Enter limit:"

read n

sum=0

for((i=0;i<=n;i++))

{

sum=$((sum+i))

}

echo "Sum of $n is: "$sum

**SAMPLE OUTPUT**

Enter limit:

10

Sum of 10 numbers is: 55

**FIBANOCCI SERIES**

Vignesh Murali

S4 CSE-C 59

a=0

b=1

echo "enter the limit"

read n

echo “fibanocci series is”

echo "$a"

echo "$b"

for ((i=2;i<n;i++))

{

((c=a+b))

echo "$c"

((a=b))

((b=c))

}

**SAMPLE OUTPUT**

enter the limit

5

“fibanocci series is”

0

1

1

2

3