

Bansilal Ramnath Agarwal Charitable Trust's

Vishwakarma Institute of Technology (An Autonomous Institute affiliated to Savitribai Phule Pune University)

Operating Systems Lab

Assignment No: 2

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: 39 Roll No

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1. Basic Arithmetic Operations in Shell Scripting.

Addition, Subtraction, Multiplication, Division Code:

2. Control Structure in Shell.

Even and Odd Code:

```
A > -/vit-comp/Module-4/Operating-System/Assignment-2 on > P main !1

bat even-odd.sh

File: even-odd.sh

#!/bin/bash

echo "even odd prgm"
read num1

if [$((num1%2)) -eq 0];
then
echo "Even"
else
echo "Even"
file:

/**
/*vit-comp/Module-4/Operating-System/Assignment-2 on > P main !1
/* /-vit-comp/Module-4/Operating-System/Assignment-2 on > P main !1
```

Switch Statement:

3. Looping.

Fibonacci Series using for loop:

Sum and average using for loop:

```
> bat forloop.sh

File: forloop.sh

file: forloop.sh

file: forloop.sh

##/bin/bash

echo "Sum and average"

file: file: 51;

sum=0

file: file: file: 51;

then

echo "Give me one parameter i.e the file"

else
for i in $(cat "$file");

do
 sum=$((sum+i))

done;

file: file: file: 51;

// **Comp/Module-4/Operating-System/Assignment-2 on **P main !2 ?3

// **Forloop.sh nosfile

Sum and average

Sum = 55

Average = 5
```

while loop:

Pyramid using until loop:

4. Command line arguments.

Addition, Subtraction, Multiplication, Division program using command line arguments:

5. Functions

Addition of two numbers using function:

Factorial of given number using recursive function:

6. Array

Taking Array as input from user and displaying sum of all the elements in array:

7. String Operations

String concatenation, length, uppercase to lowercase, lowercase to uppercase and slicing: