

GEETANJALI INSTITUTE OF TECHNICAL STUDIES

AIRPORT ROAD, DABOK, UDAIPUR



GEETANJALI

INSTITUTE OF TECHNICAL STUDIES

Name Nakshit Ameta Branch CSE Sem IV

Experiment = 5A

Date

Aim: Write a program to find out even and odd using shell script

```
echo "Enter a number"
```

```
read a
```

```
if [ `expr $a % 2` == 0 ]
```

```
then
```

```
echo "even"
```

```
else
```

```
echo "odd"
```

```
i
```

Output

Enter a number

2

even

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Name Lakshit Ameta

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Sem. IV

Experiment = 5B

Date

Aim:- Write a program to find greatest among 3 numbers using shell script

```
echo "Enter three value a,b,c"
```

```
read a
```

```
read b
```

```
read c
```

```
if [ $a -gt $b ] && [ $b -gt $c ]
```

```
then
```

```
echo "a greatest"
```

```
elif [ $b -gt $c ] && [ $c -gt $a ]
```

```
then
```

```
echo "b greatest"
```

```
else
```

```
echo "c greatest"
```

```
fi
```

Output

Enter three values

3

4

5

c greatest

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Name Lakshit Ameta Branch CSE Sem. IV

Experiment = 50

Date

Aim:- Write a program to find profit or loss using Shell script

```
echo "Enter Selling Price"
```

```
read S
```

```
echo "Enter cost price"
```

```
read C
```

```
if [ $S -gt $C ]
```

```
then
```

```
echo "Profit"
```

```
else
```

```
echo "Loss"
```

```
fi
```

Output

Enter Selling price

300

Enter cost price

500

Loss.

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Name Adarshit Arora

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Roll No. 34013

Experiment = 6A

Date

Aim:- Write a shell script to print table of a given number.

```
echo "Enter a Number"
```

```
read n
```

```
i=1
```

```
while [ $i -le 10 ]
```

```
do
```

```
echo "$n x $i = $((n*i))"
```

```
i=$((i+1))
```

```
done
```

Output

Enter a Number

5

5 x 1 = 5

5 x 2 = 10

5 x 3 = 15

5 x 4 = 20

5 x 5 = 25

5 x 6 = 30

5 x 7 = 35

5 x 8 = 40

5 x 9 = 45

5 x 10 = 50

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INSTITUTE OF TECHNICAL STUDIES

Name *dakshini Ameta* Branch *CSE* Sem. *IIIth* *412-8* Date

Experiment = 6B

Aim :- Write a shell script to print sum of digit of any number.

echo -n "Enter number:"

read n

sd=0

sum=0

while [\$n -gt 0]

do

sd=\$((~~n~~ \$n % 10))

n=\$((\$n / 10))

sum=\$((\$sum + \$sd))

done

echo "sum of all digit is \$sum"

Output

Enter number: 1234

sum of all digit is 10

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Name Sakshi Ameta

Branch CSE

Sem IVth Sec B

Experiment = 6C

Date

Aim:- Write a shell script to find factorial of any number.

echo "Enter a number"

read n

f = 1

while [\$n -gt 1]

do

f = \$((\$f * n))

n = \$((\$n - 1))

done

echo \$f

Output

Enter a number

5

120

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Name Lakshita Ameta

Branch C9E Sem IVth Sec -b

Experiment = 7A

Date

Aim :- Write a shell script to print days of a week.

`echo "enter a number"`

`read n`

`case $n in`

`1) echo "Sunday" ;;`

`2) echo "Monday" ;;`

`3) echo "Tuesday" ;;`

`4) echo "Wednesday" ;;`

`5) echo "Thursday" ;;`

`6) echo "Friday" ;;`

`7) echo "Saturday" ;;`

`*) echo "enter value between 1 to 7" ;;`

`esac`

Output

enter a number

6

Friday

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Name Lakshit Ameta

Branch CSE

Sem IVth 6th 6

Experiment = 7B

Date

Aim:- Write a shell script to make a basic calculator which performs addition, subtraction, multiplication, division.

echo "1. Addition"

echo "2. Subtraction"

echo "3. Multiplication"

echo "4. Division"

read c

case \$c in

1) echo "Sum \$(a+b)" ;;

2) echo "Subtraction \$(a-b)" ;;

3) echo "multiplication \$(a*b)" ;;

4) echo "division \$(a/b)" ;;

*) echo "Enter valid operation"

esac

Output

Enter Two numbers:

2

2

Enter choice:

1. Addition

2. Subtraction

3. Multiplication

4. Division

1

Sum 4.

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Name Lakshit Ameta

Branch CSE

Sem. IVth Sub

Experiment = 8A

Date

Aim: Write a shell script to find a number is Armstrong or not.

```
echo "Enter the number"
```

```
read n
```

```
function ams
```

```
{
```

```
t = $n
```

```
s = 0
```

```
b = 0
```

```
c = 10
```

```
while [ $n -gt $b ]
```

```
do
```

```
  r=$((n%c))
```

```
  i=$((r*r*r))
```

```
  s=$((s+i))
```

```
  n=$((n/c))
```

```
done
```

```
echo $s
```

```
if [ $s == $t ]
```

```
then
```

```
echo "Armstrong Number"
```

```
else
```

```
echo "Not an Armstrong number"
```

```
fi
```

```
result="ams $n"
```

```
echo "$result"
```

(8A)

Output

Enter the number

153

153

Armstrong Number

Enter the number

124

73

Not an Armstrong Number.

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Name Arushi Arora

Branch CSE

Sem IVth Sec b

Experiment = 3.B

Date

Aim - Write a shell script to find a number is palindrome or not.

```
echo "Enter the number"
```

```
read n
```

```
function pal
```

```
{
```

```
number = $n
```

```
reverse = 0
```

```
while [ $n -gt 0 ]
```

```
do
```

```
a = expr $n % 10
```

```
n = expr $n / 10
```

```
reverse = `expr $reverse \* 10 + $a`
```

```
done
```

```
if [ $number -eq $reverse ]
```

```
then
```

```
echo "Number is palindrome"
```

```
else
```

```
echo "Number is not palindrome"
```

```
fi
```

```
}
```

```
res = `pal $n`
```

```
echo "$n"
```


(8B)

Output

Enter the number

123

321

Number is not palindrome

Enter the number

121

121

Number is palindrome

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Name Dakshit Ameta

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Sem IVth Sec b

Experiment = 8c

Date

Aim - Write a shell script to print Fibonacci Series

```
echo "How many number of terms to be generated?"
```

```
read n
```

```
function fib
```

```
{
```

```
    x = 0
```

```
    y = 1
```

```
    i = 2
```

```
    echo "Fibonacci Series upto $n terms:"
```

```
    echo "$x"
```

```
    echo "$y"
```

```
    while [ $i -lt $n ]
```

```
    do
```

```
        i = `expr $i + 1`
```

```
        z = `expr $x + $y`
```

```
    echo "$z"
```

```
    x = $y
```

```
    y = $z
```

```
done
```

```
}
```

```
n = `fib $n`
```

```
echo "$n"
```

(8c)

Output

How many number of terms to be generated ?

15

Fibonacci Series up to 15 terms:

0 1 1 2 3 5 8 13 21 34 55 89 144 233 377

(8c)

Output

How many number of terms to be generated ?

15

Fibonacci Series up to 15 terms:

0 1 1 2 3 5 8 13 21 34 55 89 144 233 377

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Name Dakshita Saxena

Branch CSE Sem IVth Sec b

Experiment = 8D

Date

Aim :- Write a shell script to find prime number.

```
echo "Enter number"
```

```
read num
```

```
function prime
```

```
{
```

```
for ((i=2; i<=num/2; i++))
```

```
do
```

```
if [ $(($num%i)) -eq 0 ]
```

```
then
```

```
echo "Sum is not a prime number."
```

```
exit
```

```
fi
```

```
done
```

```
echo "$num is a prime number."
```

```
}
```

```
n=`prime $num`
```

```
echo "$n"
```

```
Output
```

```
Enter number
```

```
4
```

```
4 is not a prime number.
```

```
Enter number
```

```
7
```

```
7 is a prime number.
```

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Name ...Dakshini Amala...

Branch ...C&E...

Sem ...IIIth sec ...b...

Experiment = 9A

Date

Aim: Write a C program to read and print elements of array.

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
int a[1000], i, n;
```

```
printf("Enter size of array:");
```

```
scanf("%d", &n);
```

```
printf("Enter %d elements in the array:", n);
```

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

```
{
```

```
scanf("%d", &a[i]);
```

```
}
```

```
printf("\n Elements in array are:");
```

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

```
{
```

```
printf("%d", a[i]);
```

```
}
```

```
return 0;
```

```
}
```

Output

Enter size of array: 4

Enter 4 elements in the array: 1

2

3

4.

Elements in array are: 4 2 3 4.

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Name Lakshit Ameta

Branch CSE

Sem IV

Date

Experiment = 9B

Aim:- Write a C program to find sum of all array elements.

```
#include <stdio.h>
int main()
{
    int arr[100], size, i, sum = 0;
    printf("Enter array size\n");
    scanf("%d", &size);
    printf("Enter array elements\n");
    for(i = 0; i < size; i++)
        scanf("%d", &arr[i]);

    for(i = 0; i < size; i++)
        sum = sum + arr[i];
    printf("Sum of the array = %d\n", sum);
    return 0;
}
```

Output

Enter array size

5

Enter array elements

1 2 3 5 6

Sum of the array = 17

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Name Lakshit Ameta

Branch C.S.E.

Sem. IVth

Date _____

Experiment = 9c

Aim:- Write a C program to find reverse of an array.

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#define n 6
```

```
int main() {
```

```
    int arr[n] = {9, 8, 7, 2, 4, 3};
```

```
    int temp;
```

```
    for (int i = 0; i < n/2; i++) {
```

```
        temp = arr[i];
```

```
        arr[i] = arr[n-i-1];
```

```
        arr[n-i-1] = temp;
```

```
    }
```

```
    for (int i = 0; i < n; i++) {
```

```
        printf("%d", arr[i]);
```

```
    }
```

```
}
```

Input:- 6, 9, 8, 7, 2, 4, 3

Output:- 3, 4, 2, 7, 8, 9

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Name Lakshit Arora

Branch CSE

Sem. IV

Date _____

Experiment = 9D

Aim:- Write a C program to search an element in an array.

```
#include <stdio.h>
```

```
#include <conio.h>
```

```
int main()
```

```
{
```

```
int a[10000], i, n, Key;
```

```
printf("Enter size of the array:");
```

```
scanf("%d", &n);
```

```
printf("Enter elements in array:");
```

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

```
scanf("%d", &a[i]);
```

```
}
```

```
printf("Enter the key:");
```

```
scanf("%d", &Key);
```

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

```
{
```

```
if(a[i] == Key)
```

```
{
```

```
printf("element found");
```

```
return 0;
```

```
}
```

```
}
```

```
printf("element not found");
```

```
}
```

Output

Enter size of the array: 3

Enter elements in array: 4

6

2

Enter the key: 2

element found