

Operating System

Semester 4

Practical-2 Shell Scripting

(A) Hello World program

1. Write a shell script to print Hello World

Input:



```
bharat_patel@DESKTOP-8B66SV2:~$ echo "Hello world"
Hello world
```

Output:



```
bharat_patel@DESKTOP-8B66SV2:/mnt/f/Tanvi/os$ vi os1.sh
bharat_patel@DESKTOP-8B66SV2:/mnt/f/Tanvi/os$ sh os1.sh
Hello world
```

Operating System

Semester 4

(B) Variables

1. Write a shell script which has a variable and print that variable

Input:

```
bharat_patel@DESKTOP-8B66SV2: /mnt/f/T  
str="I am programming in Linux"  
echo $str  
~  
~
```

Output:

```
bharat_patel@DESKTOP-8B66SV2:/mnt/f/Tanvi/os$ vi os2.sh  
bharat_patel@DESKTOP-8B66SV2:/mnt/f/Tanvi/os$ sh os2.sh  
I am programming in Linux  
bharat_patel@DESKTOP-8B66SV2:/mnt/f/Tanvi/os$
```

2. Write a shell script which takes the name , enrollment number and class of a student and display it

Input:

```
bharat_patel@DESKTOP-8B66SV2: /mnt/f/Tanvi/os  
echo "Enter your name"  
read name  
echo "Enter your enrollment number"  
read enroll  
echo "Enter your class name"  
read class  
echo "Name: $name"  
echo "Enrollement number: $enroll"  
echo "Class: $class"  
~  
~
```

Output:

```
bharat_patel@DESKTOP-8B66SV2:/mnt/f/Tanvi/os$ vi os3.sh  
bharat_patel@DESKTOP-8B66SV2:/mnt/f/Tanvi/os$ sh os3.sh  
Enter your name  
Tanvi  
Enter your enrollment number  
22C25015  
Enter your class name  
Btech IT  
Name: Tanvi  
Enrollement number: 22C25015  
Class: Btech IT  
bharat_patel@DESKTOP-8B66SV2:/mnt/f/Tanvi/os$
```

Operating System

Semester 4

(C)Arithmetic Operations

1. Write a shell Script which takes two numbers and input and print the sum of it

Input:

```
bharat_patel@DESKTOP-8B66SV2: /mnt/f/Tanvi/os
echo "Enter first number"
read n1
echo "Enter second number"
read n2
sum=$((n1+n2))
echo "The sum of $n1 and $n2 is $sum"
~
~
~
```

Output:

```
bharat_patel@DESKTOP-8B66SV2:/mnt/f/Tanvi/os$ vi os4.sh
bharat_patel@DESKTOP-8B66SV2:/mnt/f/Tanvi/os$ sh os4.sh
Enter first number
5
Enter second number
4
The sum of 5 and 4 is 9
```

2. Write a shell Script which takes two numbers and input and print the difference of it

Input:

```
bharat_patel@DESKTOP-8B66SV2: /mnt/f/Tanvi/os
echo "Enter first number"
read n1
echo "Enter second number"
read n2
diff=$((n1-n2))
echo "Difference between $n1 and $n2 is $diff"
~
~
~
```

Output:

```
bharat_patel@DESKTOP-8B66SV2:/mnt/f/Tanvi/os$ vi os5.sh
bharat_patel@DESKTOP-8B66SV2:/mnt/f/Tanvi/os$ sh os5.sh
Enter first number
9
Enter second number
3
Difference between 9 and 3 is 6
```

Operating System

Semester 4

3. Write a shell Script which takes two numbers and input and print the multiplication of it
Input:

```
bharat_patel@DESKTOP-8B66SV2: /mnt/f/Tanvi/os
echo "Enter first number"
read n1
echo "Enter second number"
read n2
mult=$((n1*n2))
echo "Multiplication of $n1 and $n2 is $mult"
~
~
```

Output:

```
bharat_patel@DESKTOP-8B66SV2:/mnt/f/Tanvi/os$ vi os6.sh
bharat_patel@DESKTOP-8B66SV2:/mnt/f/Tanvi/os$ sh os6.sh
Enter first number
5
Enter second number
6
Multiplication of 5 and 6 is 30
```

4. Write a shell Script which takes two numbers and input and print the division of it
Input:

```
bharat_patel@DESKTOP-8B66SV2: /mnt/f/Tanvi/os
echo "Enter first number"
read n1
echo "Enter second number"
read n2
div=$((n1/n2))
echo "Division of $n1 and $n2 is $div"
~
~
```

Output:

```
bharat_patel@DESKTOP-8B66SV2:/mnt/f/Tanvi/os$ vi os7.sh
bharat_patel@DESKTOP-8B66SV2:/mnt/f/Tanvi/os$ sh os7.sh
Enter first number
5
Enter second number
2
Division of 5 and 2 is 2
```