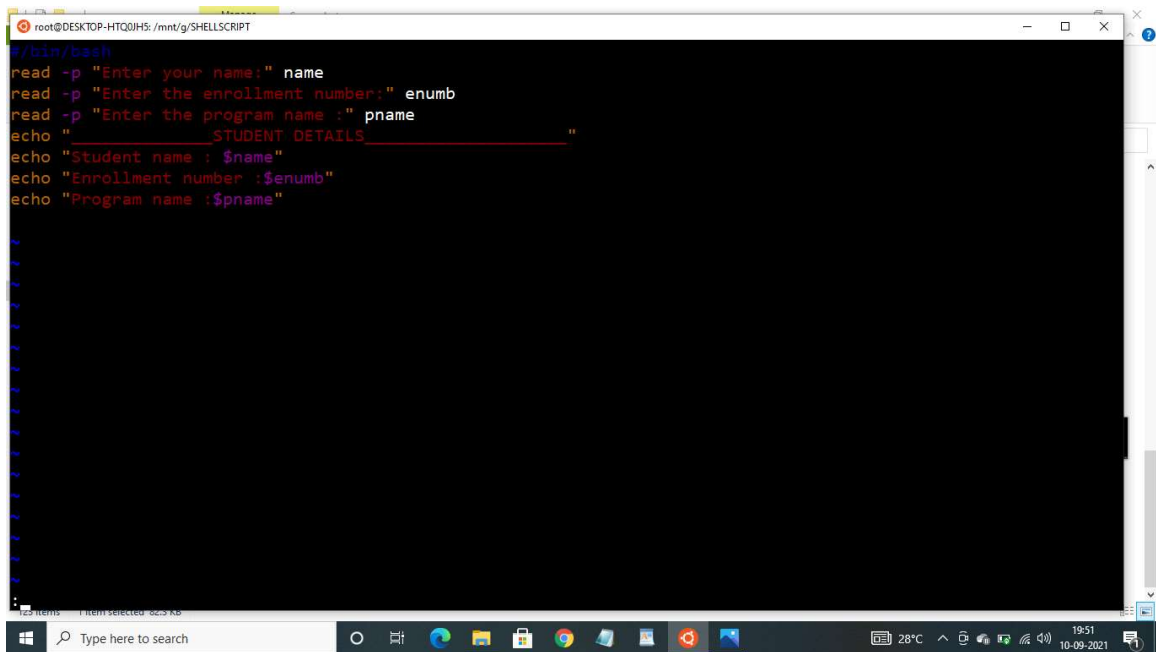


EXPERIMENT NO :

AIM :: PROGRAMS ON SHELL SCRIPT

- Write a shell script to ask your name, program name and enrollment number and print it on the screen.

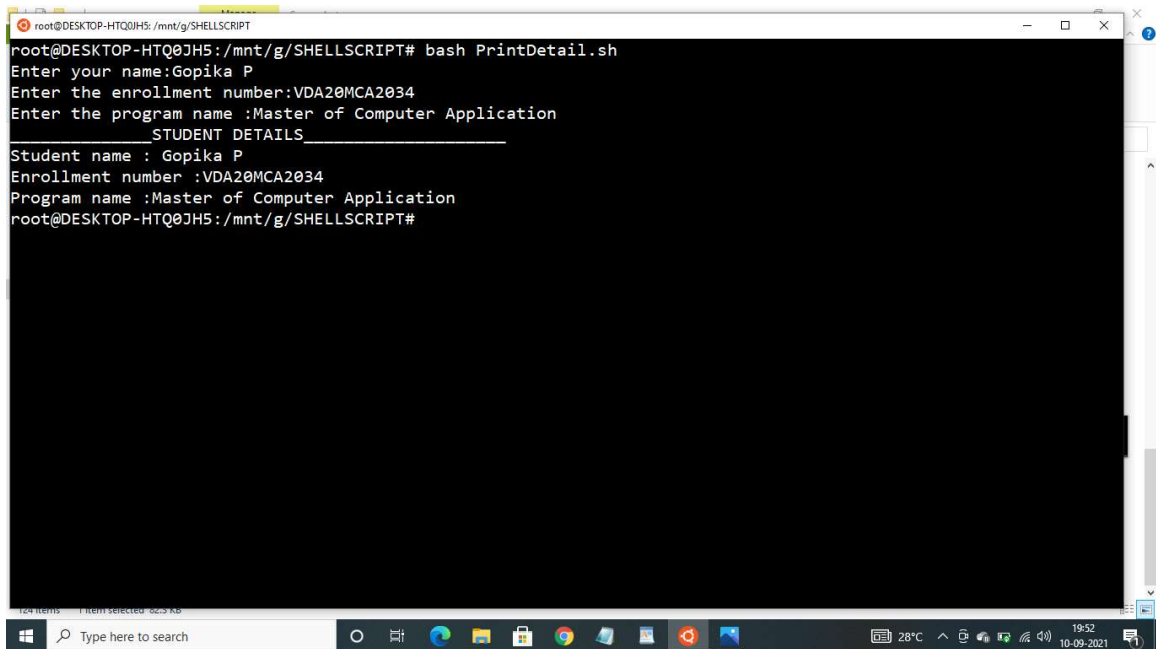
Source Code & OP:



The screenshot shows a terminal window titled "root@DESKTOP-HTCQIH5:/mnt/g/SHELLSCRIPT". The terminal displays the following shell script code:

```
#!/bin/bash
read -p "Enter your name:" name
read -p "Enter the enrollment number:" enumb
read -p "Enter the program name : " pname
echo "_____STUDENT DETAILS_____"
echo "Student name : $name"
echo "Enrollment number : $enumb"
echo "Program name : $pname"
```

The terminal window is running on a Windows operating system, as evidenced by the taskbar at the bottom showing the Start button, search bar, and various application icons. The system clock in the bottom right corner indicates the time is 19:51 on 10-09-2021.



The screenshot shows a Windows terminal window titled "root@DESKTOP-HTQ0JH5:/mnt/g/SHELLSCRIPT". The terminal displays the execution of a shell script named "PrintDetail.sh". The script prompts the user for their name, enrollment number, and program name. The user enters "Gopika P", "VDA20MCA2034", and "Master of Computer Application" respectively. The script then prints the details under the heading "STUDENT DETAILS".

```
root@DESKTOP-HTQ0JH5:/mnt/g/SHELLSCRIPT# bash PrintDetail.sh
Enter your name:Gopika P
Enter the enrollment number:VDA20MCA2034
Enter the program name :Master of Computer Application
      STUDENT DETAILS
Student name : Gopika P
Enrollment number :VDA20MCA2034
Program name :Master of Computer Application
root@DESKTOP-HTQ0JH5:/mnt/g/SHELLSCRIPT#
```

- Write a shell script to find the sum ,average and product of four numbers entered.

Source Code & OP:

```
root@DESKTOP-HTQ0JH5: /mnt/g/SHELLSCRIPT
#!/bin/bash
read -p "Enter the first number:" a
read -p "Enter the second number :" b
read -p "Enter the third number :" c
read -p "Enter the fourth number :" d
sum=$(( a+b+c+d ))
avg=$(( sum/4 ))
pro=$(( a*b*c*d ))
echo "sum of $a,$b,$c and $d is $sum"
echo "Average of $a,$b,$c and $d is $avg"
echo "Product is $a,$b,$c and $d_$pro "
-- INSERT --
```


```
root@DESKTOP-HTQ0JH5: /mnt/g/SHELLSCRIPT# bash DisplayArith.sh
Enter the first number:23
Enter the second number :12
Enter the third number :4
Enter the fourth number :5
sum of 23,12,4 and 5 is 44
Average of 23,12,4 and 5 is 11
Product is 23,12,4 and 5 5520
root@DESKTOP-HTQ0JH5: /mnt/g/SHELLSCRIPT#
```

- Write a shell script to exchange the values of two variables.

Source Code & OP:

- Write a shell script to display the digits which are in the odd position in a given 5 digit number.

Source Code & OP:



The screenshot shows a Windows desktop with a terminal window open. The terminal title bar reads "root@DESKTOP-HTQ0IH5: /mnt/g/SHELLSCRIPT". The terminal content shows a Bash script being executed:

```

/bin/bash
read -p " Enter a five digit number :" n
for ((i=0;i<3;i++))
do
    r=$((n%10))
    echo $r
    n=$((n/100))
done

```

The script prompts the user to enter a five-digit number. The output shows the first two digits, 7 and 4, being printed on separate lines. The terminal window is maximized, and the Windows taskbar is visible at the bottom with the system clock showing 20:50 on 12-09-2021.


```
root@DESKTOP-HTQ0JH5: /mnt/g/SHELLSCRIPT
root@DESKTOP-HTQ0JH5:/mnt/g/SHELLSCRIPT# bash larg.sh
Enter first integer: 23
Enter the second integer : 0
Enter the third integer :18
23 is largest
root@DESKTOP-HTQ0JH5:/mnt/g/SHELLSCRIPT#
```

- Write a shell program to concatenate two strings and find the length of the resultant string.

Source Code & OP:

```
#!/bin/bash
read -p "Enter the first string: " s1
read -p "Enter the second string : " s2
s1+=s2
echo "The resultant string is $s1 "
len= expr "$s1" : '.*'
echo "length of string $len "

"concat.sh" 7L, 188C
```

```
root@DESKTOP-HTQ0JH5:/mnt/g/SHELLSCRIPT# vim concat.sh
root@DESKTOP-HTQ0JH5:/mnt/g/SHELLSCRIPT# bash concat.sh
Enter the first string: computer
Enter the second string : science
The resultant string is computerscience
length of string 15
root@DESKTOP-HTQ0JH5:/mnt/g/SHELLSCRIPT#
```

- Write a shell program to check whether a given string is palindrome or not.

Source Code & OP:

```
root@DESKTOP-HTQ0IH5: /mnt/g/SHELLSCRIPT
#!/bin/bash
read -p "Enter the number:" num
s=0
r=0
n=$num
while [ $num -gt 0 ]
do
    r=$((num%10))
    s=$((s*10+r))
    num=$((num/10))
done
if [ $s -eq $n ]
then
    echo " $n is palindrome"
else
    echo "$n is not palindrome"
fi
:WQ_
```



```
root@DESKTOP-HTQ0JH5: /mnt/g/SHELLSCRIPT
root@DESKTOP-HTQ0JH5:/mnt/g/SHELLSCRIPT# bash palin.sh
Enter the number:121
121 is palindrome
root@DESKTOP-HTQ0JH5:/mnt/g/SHELLSCRIPT# bash palin.sh
Enter the number:234
234 is not palindrome
root@DESKTOP-HTQ0JH5:/mnt/g/SHELLSCRIPT#
```

- Write a shell script to find the smallest of three numbers.

Source Code & OP:

