LINUX

Linux Shell Script Program Assessment

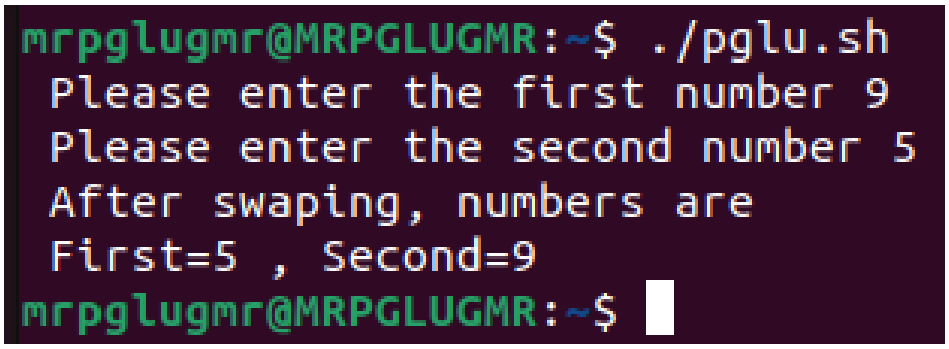
1. Create a Linux shell script program to swap two numbers.

   Input:

```
read -p " Please enter the first number " First
read -p " Please enter the second number " Second

Temp=$First
First=$Second
Second=$Temp
echo " After swaping, numbers are "
echo " First=$First , Second=$Second "
```

   Output:

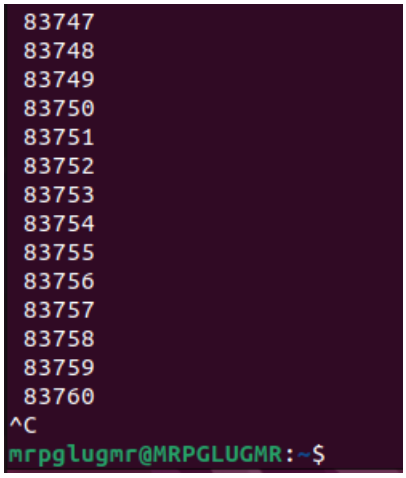


2. Create a Linux shell script program to print whole number.

   Input:

```
i=0
while [ $i -ge 0 ]
do
echo " $i "
((i++))
done
```

Output:

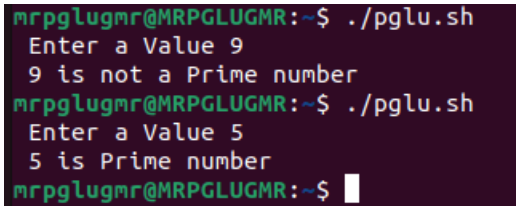


3. Create a Linux shell script program to print prime number.

Input:

```
read -p " Enter a Value " n
for((i=2; i<=$n/2; i++))
do
a=$(($n%i));
if [ $a -eq 0 ]
then
echo " $n is not a Prime number "
exit 0
fi
done
echo " $n is Prime number "
```

Output:

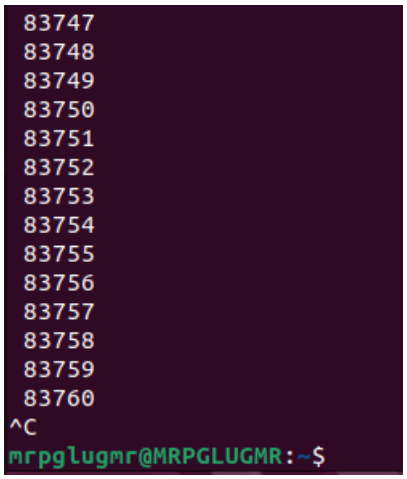


4. Create a Linux shell script program to print natural number.

Input:

```
i=1
while [ $i -ge 0 ]
do
echo " $i "
((i++))
done
```

Output:



5-6. Create a Linux shell script program to print even & odd number.

Input:

```
read -p "Enter a number: " A
B=$(($A%2))
if [ $B -eq 0 ]
then
echo " Number $A is Even "
else
echo " Number $A is Odd "
fi
```

Output:

```
mrpglugmr@MRPGLUGMR:~$ gedit pglu.sh
mrpglugmr@MRPGLUGMR:~$ ./pglu.sh
Enter a number: 5
 Number 5 is Odd
mrpglugmr@MRPGLUGMR:~$ ./pglu.sh
Enter a number: 88
 Number 88 is Even
mrpglugmr@MRPGLUGMR:~$
```

7. Create a Linux shell script program to print read two integer numbers and print the subtraction of both the numbers.

   Input:

```
read -p " Please enter the first value " A
read -p " Please enter the first value " B
Sub1=$(($A-$B))
Sub2=$(($B-$A))
if [ $A -gt $B ]
then
echo " Subtraction of both the number = $Sub1 "
else
echo " Subtraction of both the number = $Sub2 "
fi
```

   Output:

```
mrpglugmr@MRPGLUGMR:~$ ./pglu.sh
 Please enter the first value 9
 Please enter the first value 10
 Subtraction of both the number = 1
mrpglugmr@MRPGLUGMR:~$
```

8. Create a Linux shell script program to take a number from the user and check whether the number is greater than 20 or not.

   Input:

```
read -p " Enter a Value " A
if [ $A -gt 20 ]
then
```

```
echo " $A is grater then 20 "
else
echo " $A is not grater then 20 "
fi
```

Output:

```
mrpglugmr@MRPGLUGMR:~$ ./pglu.sh
 Enter a Value 25
 25 is grater then 20
mrpglugmr@MRPGLUGMR:~$ ./pglu.sh
 Enter a Value 5
 5 is not grater then 20
mrpglugmr@MRPGLUGMR:~$
```

9. Print a table of 13 using forloop.

Input:

```
for i in 13 26 39 52 65 78 91 104 117 130
do
echo " $i "
done
```

Output:

```
mrpglugmr@MRPGLUGMR:~$ ./pglu.sh
 13
 26
 39
 52
 65
 78
 91
 104
 117
 130
```

10. Print numbers from 1-10 using "C style forLoop".

Input:

```
for i in {1..10}
do
echo " $i "
done
```

Output:

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