Green University of Bangladesh

Lab Performance

Course Title: Operation System Lab

Course Code: CSE 310

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Submitted To	Submitted By
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Problem:1

1. Write a Shell program:

Input: Welcome to the Green University of Bangladesh

Output:

Green

Green University

Green University of Bangladesh
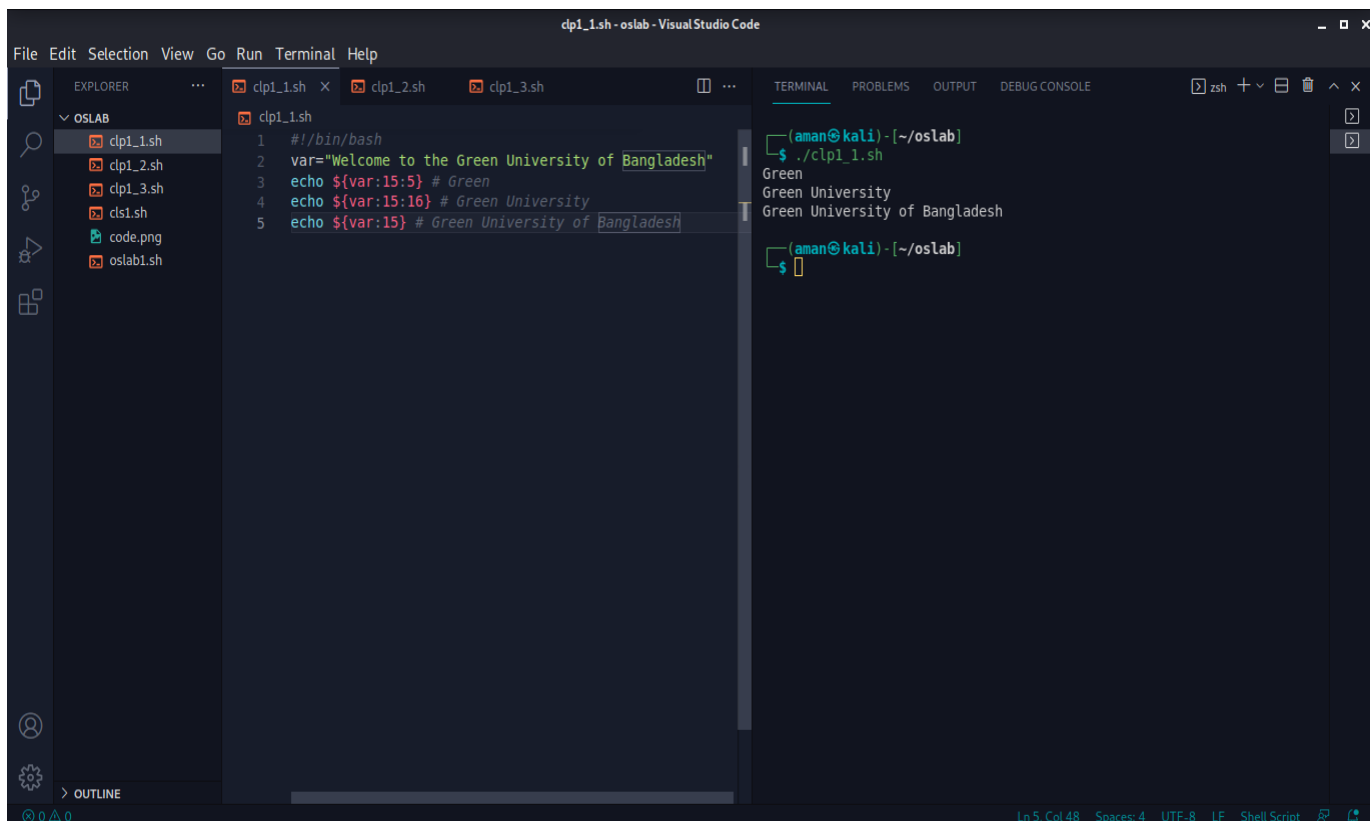
Source Code:

```bash
#!/bin/bash
var="Welcome to the Green University of Bangladesh"
echo ${var:15:5} # Green
echo ${var:15:16} # Green University
echo ${var:15} # Green University of Bangladesh
```

Output:

Fig: Problem 1 output

Problem:2

2. Write shell script to display even position numbers (using Until loop).

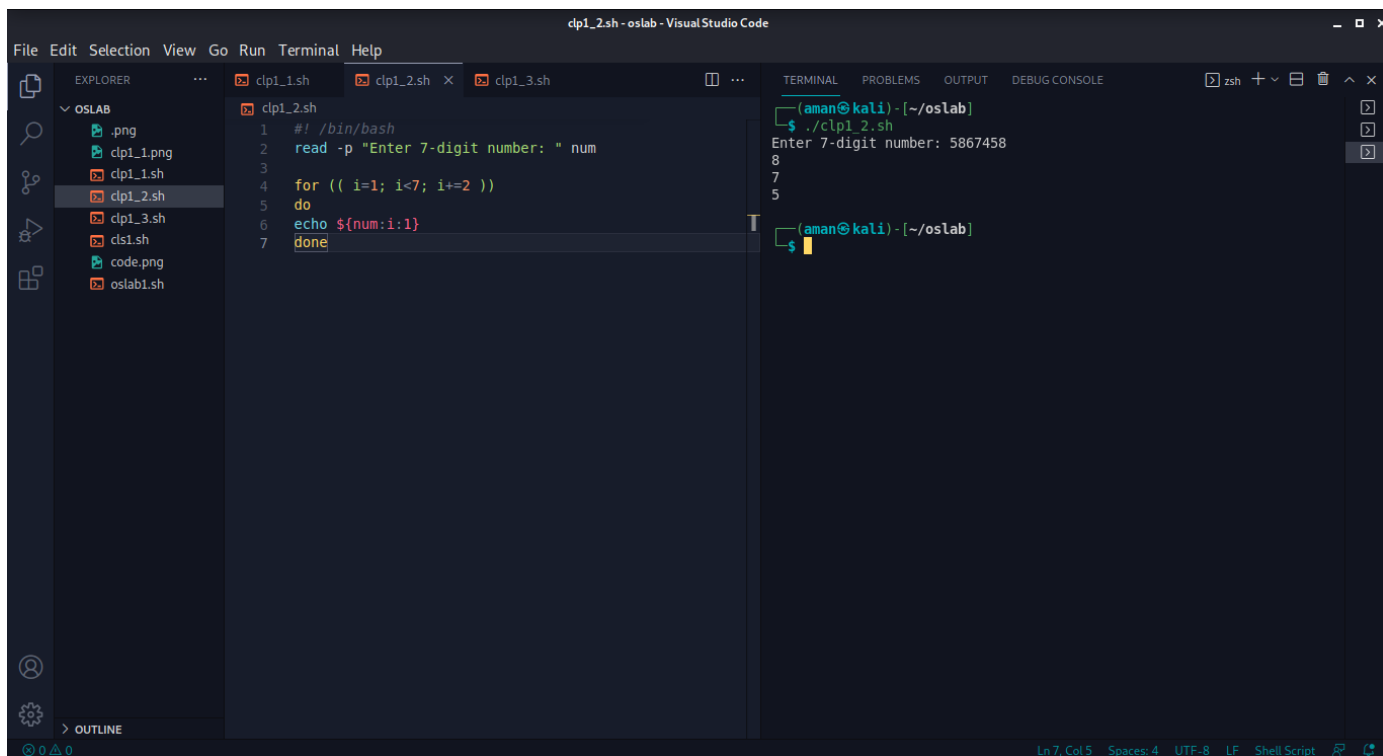**Sample Input:**

    Enter 7-digit number: 5867458

Output:

    8

    7

    5

Source Code:

```bash
#! /bin/bash
read -p "Enter 7-digit number: " num
for (( i=1; i<7; i+=2 ))
do
echo ${num:i:1}
done
```

Output:

Fig: Problem 2 output

Problem:3

3. Write a Shell program using While loop from a set of numbers.

Sample Input:

    Enter the number: 562526565256

Output:

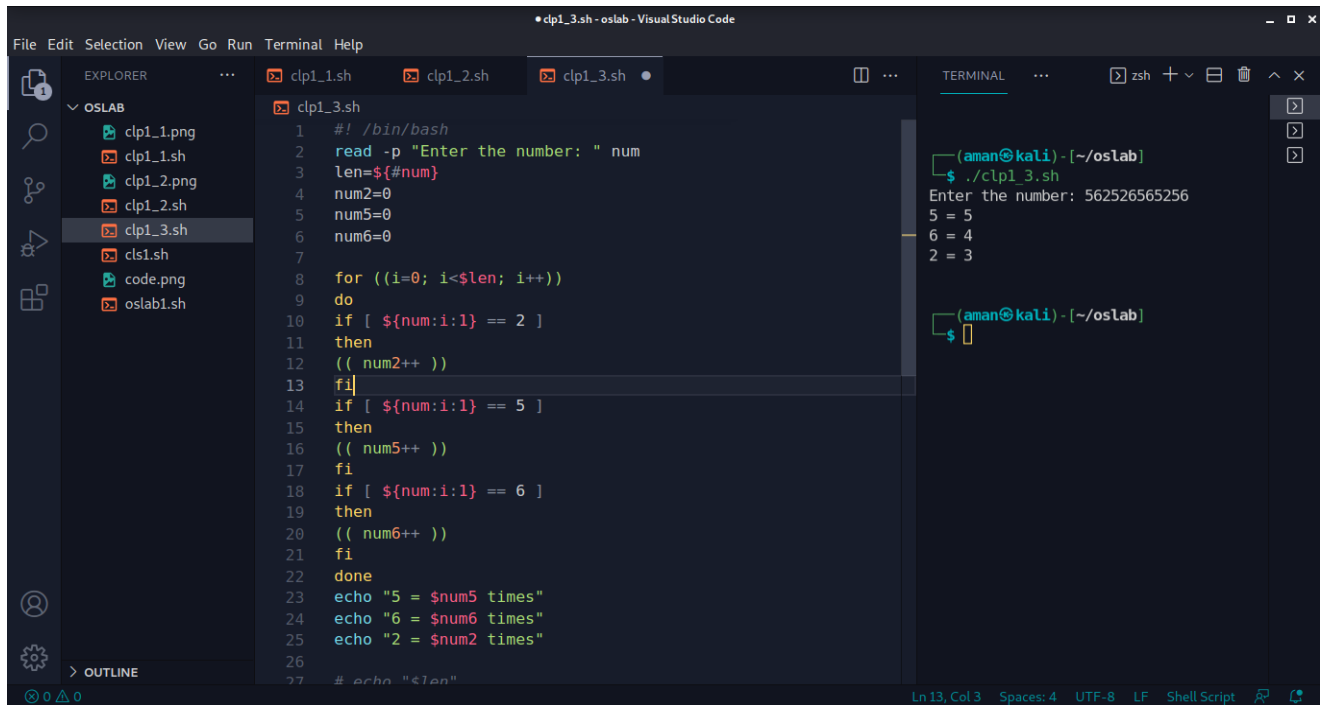   5 = 5 times

    6 = 4 times

    2 = 3 times

Source Code:

```bash
#! /bin/bash
read -p "Enter the number: " num
len=${#num}
num2=0
num5=0
num6=0

for ((i=0; i<$len; i++))
do
if [ ${num:i:1} == 2 ]
then
(( num2++ ))
fi
if [ ${num:i:1} == 5 ]
then
(( num5++ ))
fi
if [ ${num:i:1} == 6 ]
then
(( num6++ ))
fi
done
echo "5 = $num5 times"
echo "6 = $num6 times"
echo "2 = $num2 times"
```

Output:

Fig: Problem 3 output