OSG202 LAB 04

ASSIGNMENT REPORT

Programming in Shell

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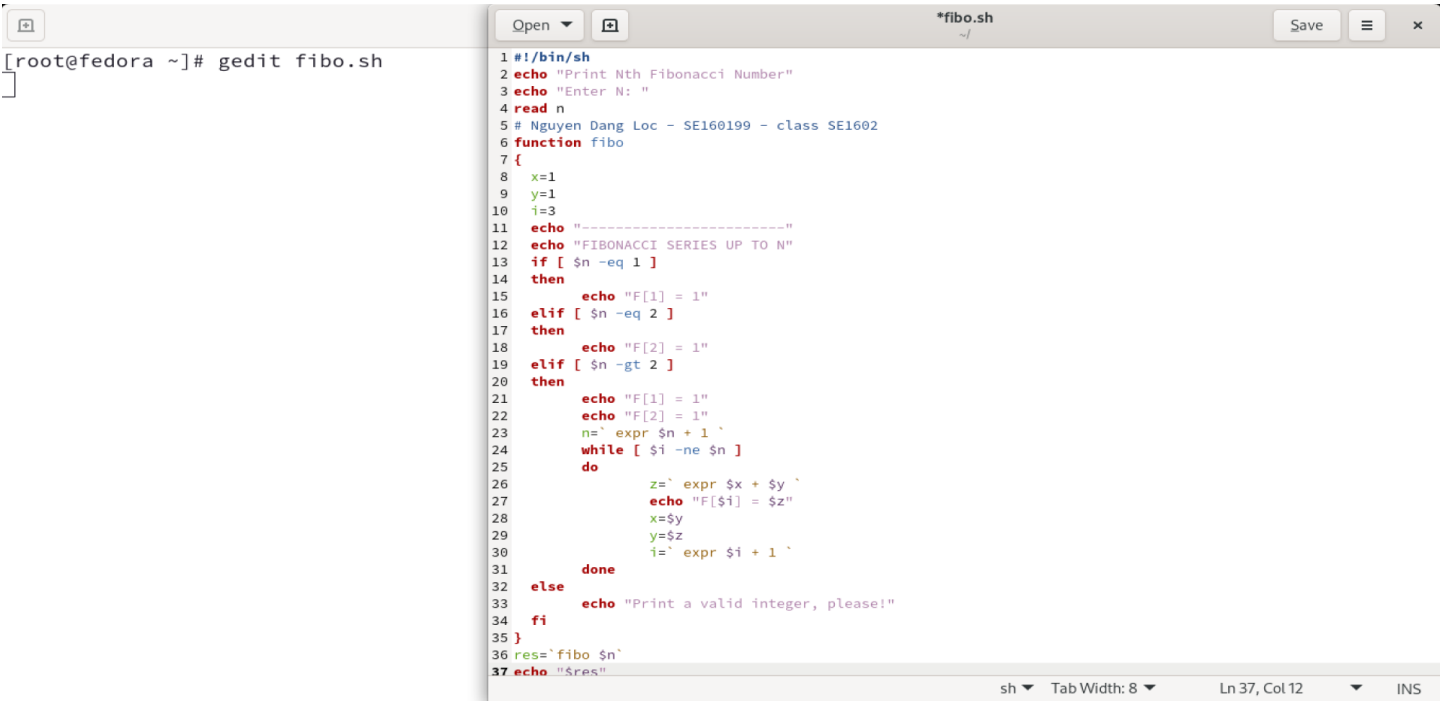
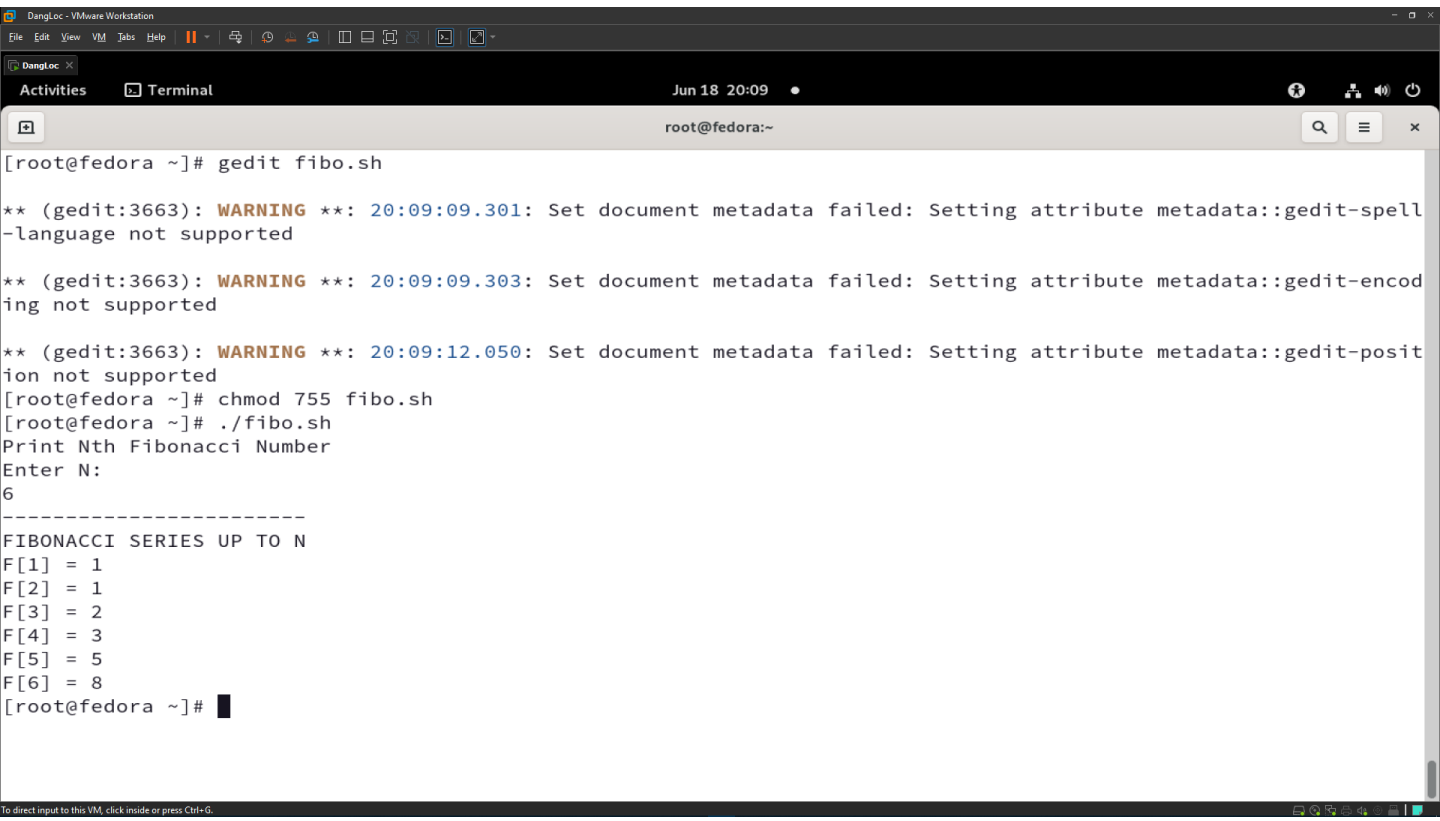
Class	SE1602

Fibonacci program in Shell

I use GEDIT (editor supplied with the GNOME desktop environment) Because I feel it easy to use and it also has syntax highlighting, vary color of parameters, variables.

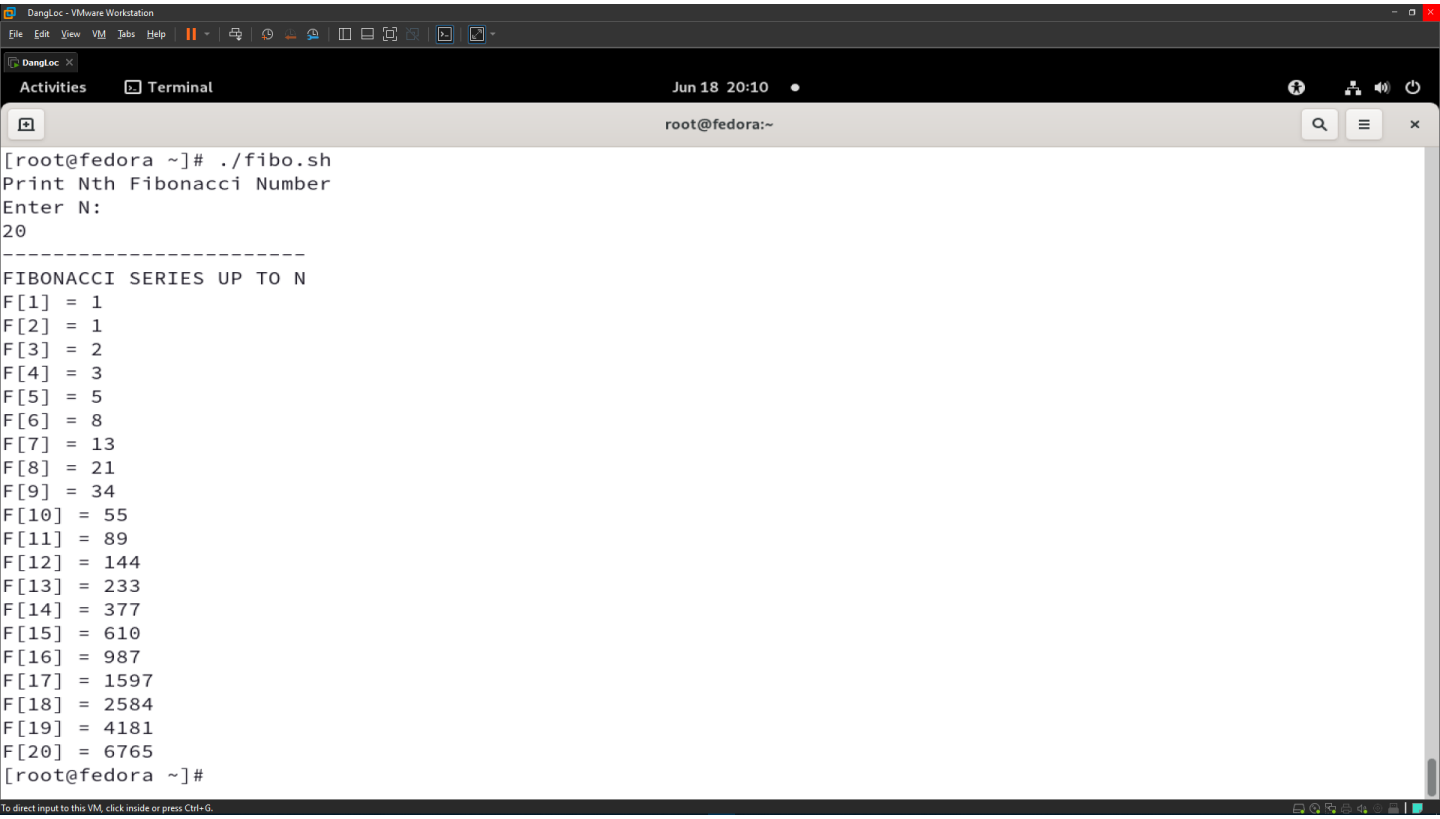


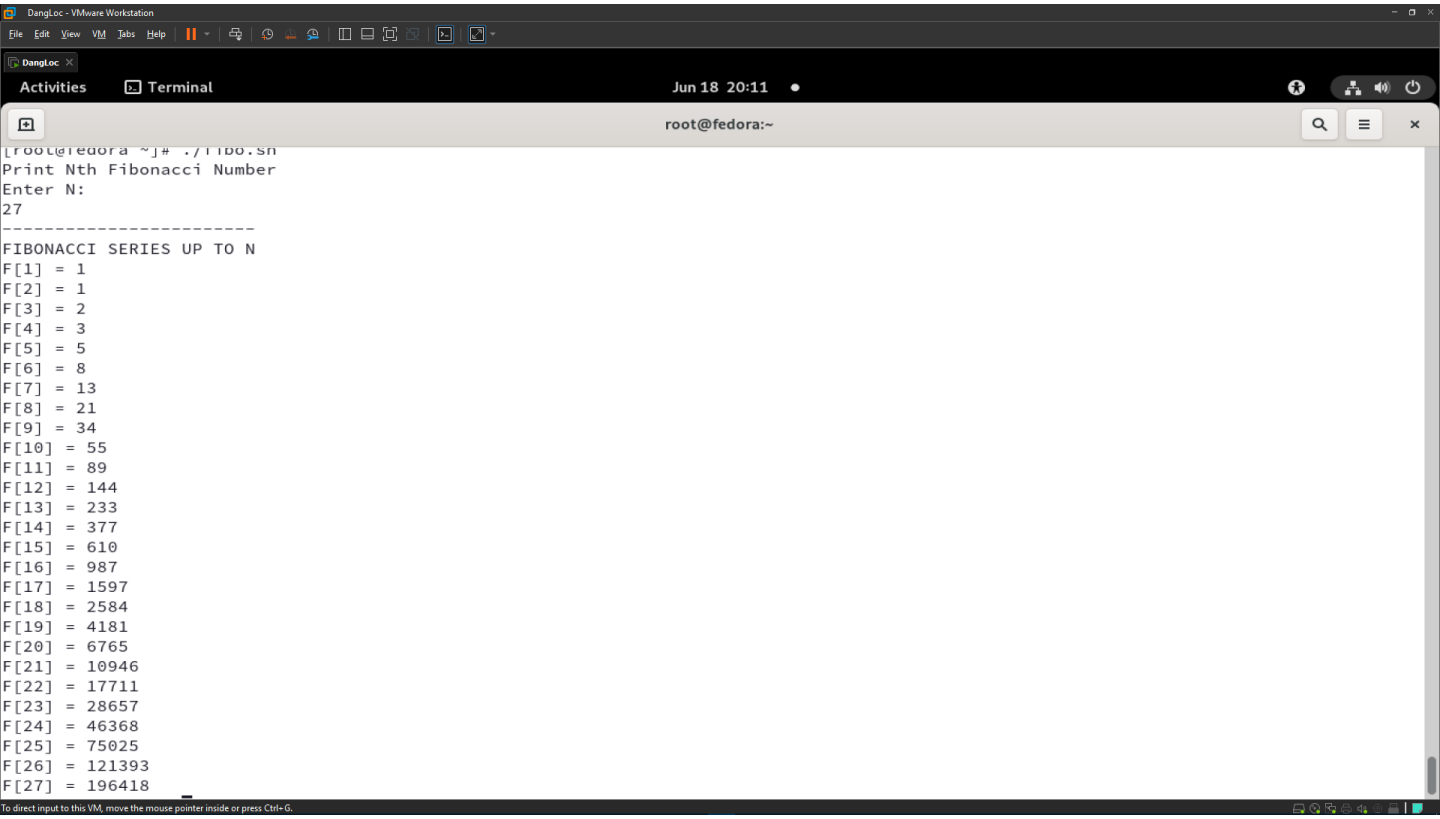
After typing command line ***gedit fibo.sh***, a new window of editor pop up and I wrote my code there.



Save the code and back to the terminal, there was some warning by I still don't know how to fix it, but it's not a very serious problem.

I test the program with some values (as shown below).





My source code of **FIBONACCI** program in Shell script.

```
#!/bin/sh
echo "Print Nth Fibonacci Number"
echo "Enter N: "
read n
# Nguyen Dang Loc - SE160199 - class SE1602
function fibo
{
  x=1
  y=1
  i=3
  echo "------------------------"
  echo "FIBONACCI SERIES UP TO N"
  if [ $n -eq 1 ]
  then
     echo "F[1] = 1"
  elif [ $n -eq 2 ]
  then
     echo "F[2] = 1"
  elif [ $n -gt 2 ]
  then
     echo "F[1] = 1"
     echo "F[2] = 1"
     n=` expr $n + 1 `
     while [ $i -ne $n ]
     do
          z=` expr $x + $y `
          echo "F[$i] = $z"
               x=$y
          y=$z
          i=` expr $i + 1 `
     done
  else
     echo "Print a valid integer, please!"
  fi
}
res=`fibo $n`
echo "$res"
```

Thank you!

By Nguyen Dang Loc