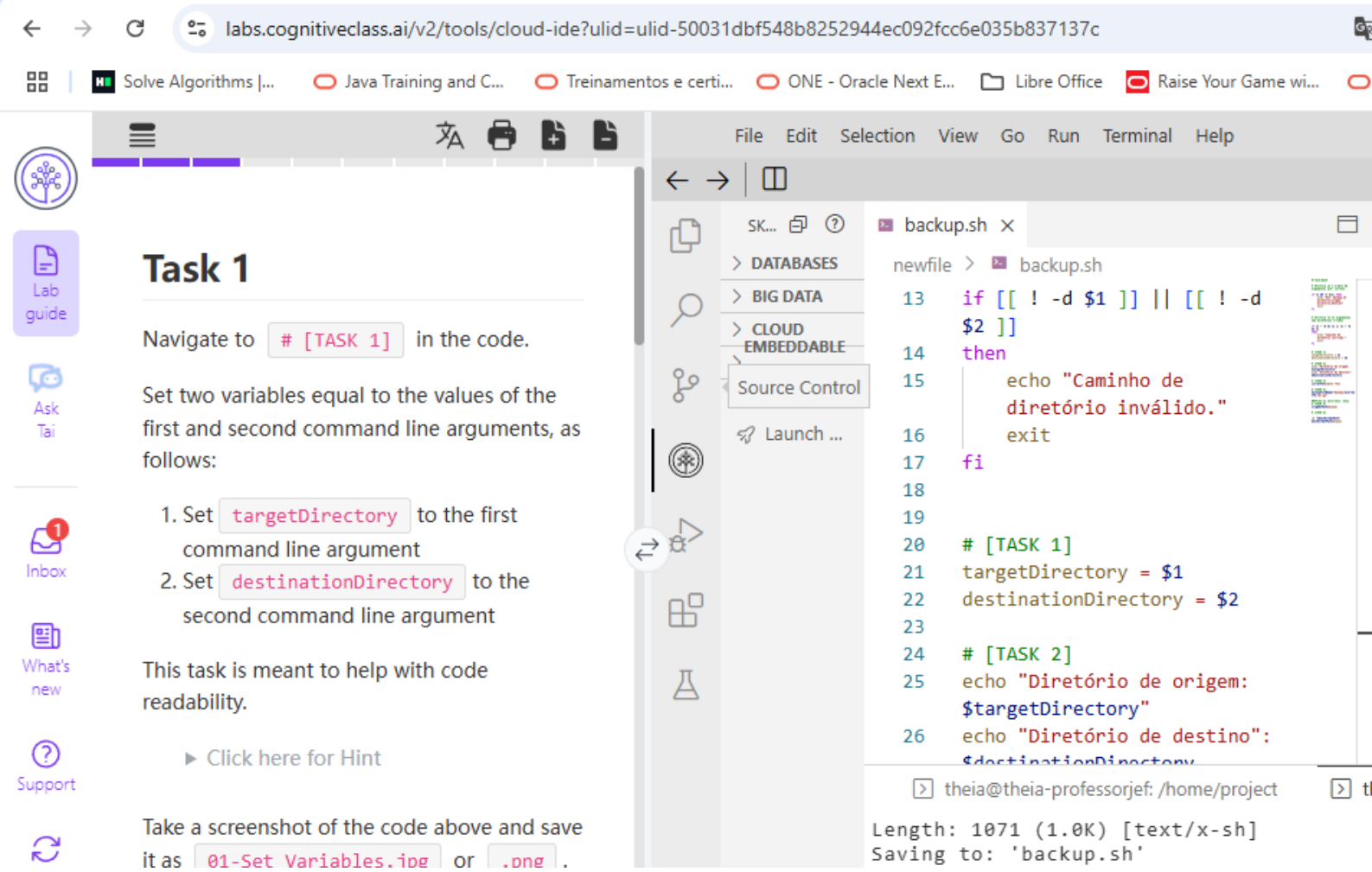
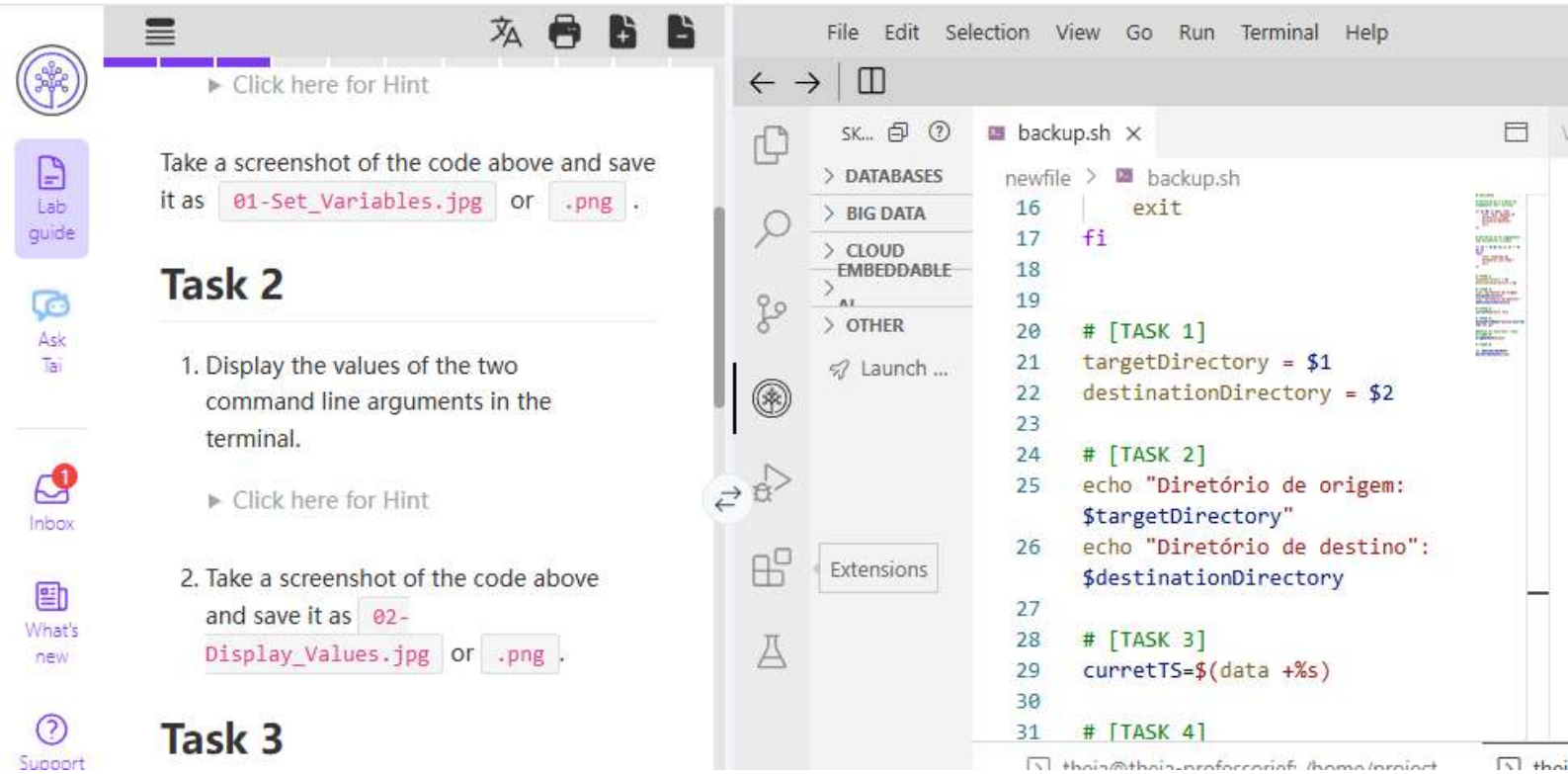

labs.cognitiveclass.ai/v2/tools/cloud-ide?ulid=ulid-50031dbf548b8252944ec092fcc6e035b837137c
Solve Algorithms |...
Java Training and C...
Treinamentos e certi...
ONE - Oracle Next E...
Libre Office
Raise Your Game wi...
Lab guide
Ask Tai
Inbox
What's new
Support
Task 1
Navigate to # [TASK 1] in the code.
Set two variables equal to the values of the first and second command line arguments, as follows:
1. Set targetDirectory to the first command line argument
2. Set destinationDirectory to the second command line argument
This task is meant to help with code readability.
Click here for Hint
Take a screenshot of the code above and save it as 01-Set Variables.jpg or .png .
File Edit Selection View Go Run Terminal Help
backup.sh
newfile > backup.sh
DATABASES
BIG DATA
CLOUD EMBEDDABLE
Source Control
Launch ...
13 if [[! -d $1]] || [[! -d $2]]
14 then
15 echo "Caminho de diretório inválido."
16 exit
17 fi
18
19
20 # [TASK 1]
21 targetDirectory = $1
22 destinationDirectory = $2
23
24 # [TASK 2]
25 echo "Diretório de origem: $targetDirectory"
26 echo "Diretório de destino":
theia@theia-professorjef: /home/project
Length: 1071 (1.0K) [text/x-sh]
Saving to: 'backup.sh'


Lab guide
Ask Tai
Inbox
What's new
Support
Click here for Hint
Take a screenshot of the code above and save it as 01-Set_Variables.jpg or .png .
Task 2
1. Display the values of the two command line arguments in the terminal.
Click here for Hint
2. Take a screenshot of the code above and save it as 02-Display_Values.jpg or .png .
Task 3
File Edit Selection View Go Run Terminal Help
SK...
DATABASES
BIG DATA
CLOUD EMBEDDABLE
OTHER
Launch ...
Extensions
backup.sh
newfile > backup.sh
16 exit
17 fi
18
19
20 # [TASK 1]
21 targetDirectory = $1
22 destinationDirectory = $2
23
24 # [TASK 2]
25 echo "Diretório de origem: $targetDirectory"
26 echo "Diretório de destino": $destinationDirectory
27
28 # [TASK 3]
29 curretTS=$(data +%s)
30
31 # [TASK 4]

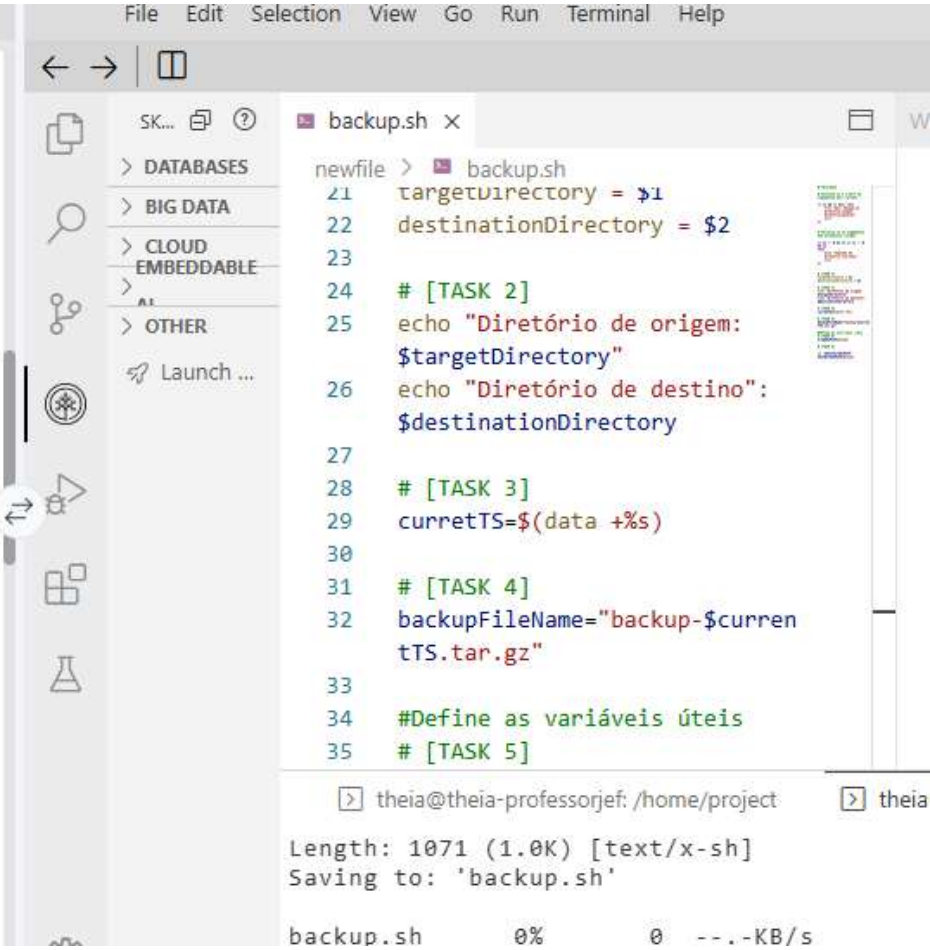
Task 3

1. Define a variable called `currentTS` as the current timestamp, expressed in seconds.

   ▼ Click here for Hint

   > *Remember you can customize the output format of the `date` command.*
   >
   > *To set a variable equal to the output of a command you can use command substitution: `$()` or `` ` ` ``*
   >
   > - *For example: `currentYear=$(date +%Y)`*

2. Take a screenshot of the code above and save it as `03-CurrentTS.jpg` or `.png`.



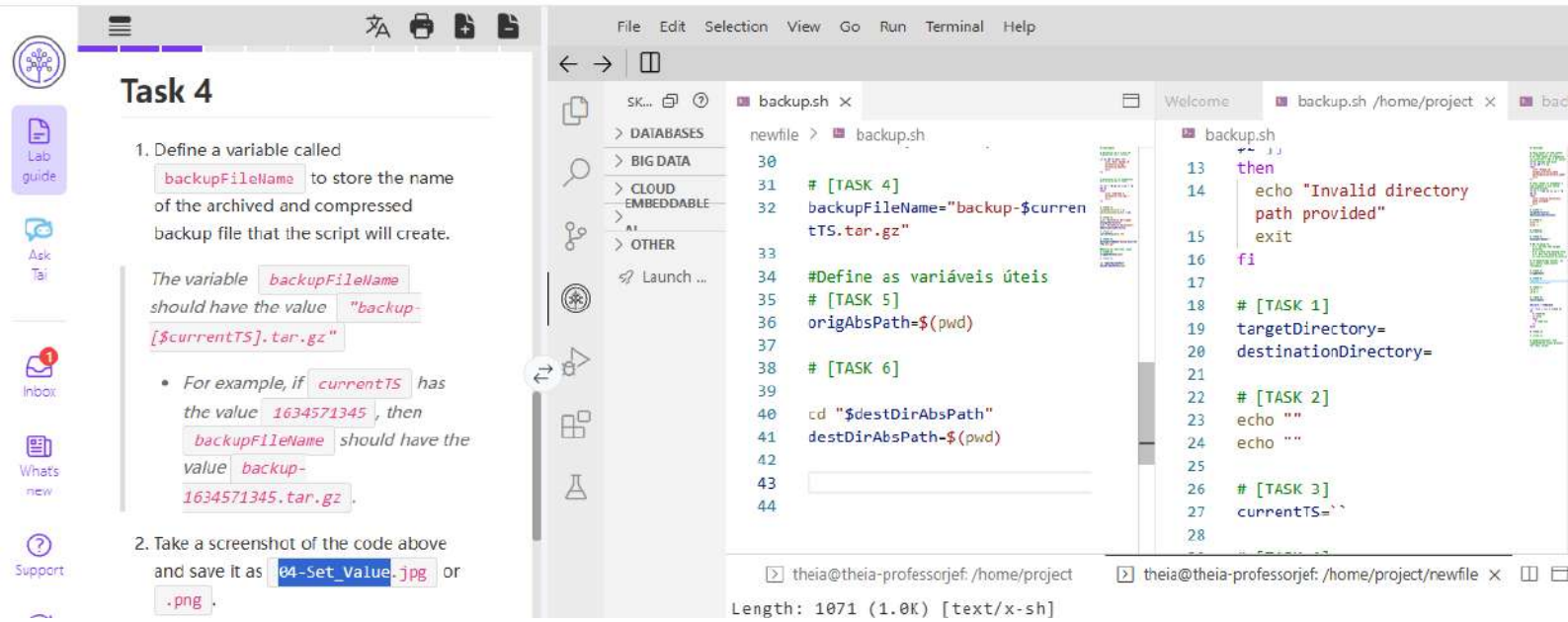
Task 4

1. Define a variable called `backupFileName` to store the name of the archived and compressed backup file that the script will create.

   The variable `backupFileName` should have the value `"backup-[$currentTS].tar.gz"`

   - *For example, if `currentTS` has the value `1634571345`, then `backupFileName` should have the value `backup-1634571345.tar.gz`.*

2. Take a screenshot of the code above and save it as `04-Set_Value.jpg` or `.png`.



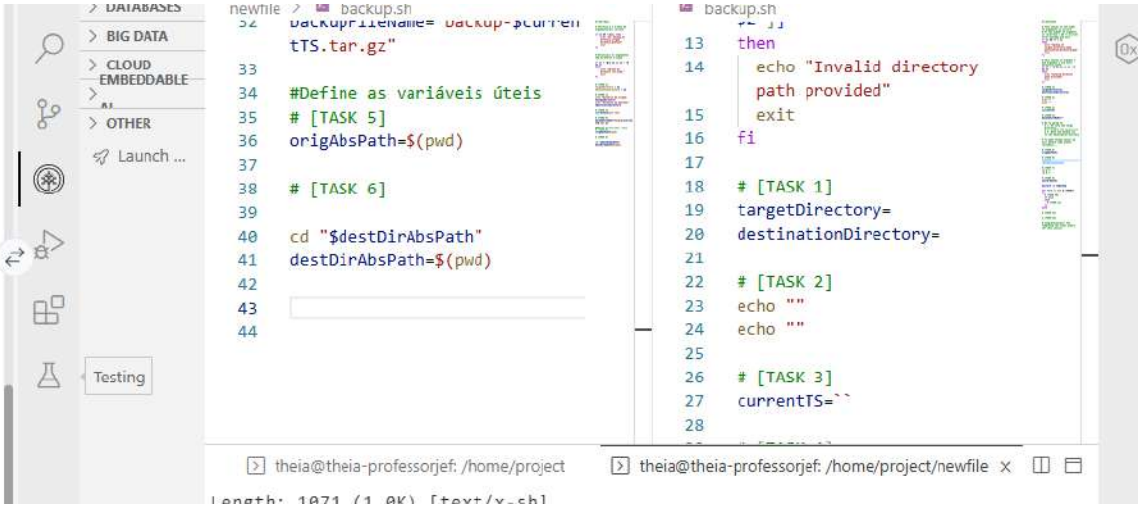
Task 5

1. Define a variable called `origAbsPath` with the absolute path of the current directory as the variable's value.

   ▼ Click here for Hint

   > *You can get the absolute path of the current directory using the `pwd` command.*

2. Take a screenshot of the code above and save it as `05-Define_Variable.jpg` or `.png`.



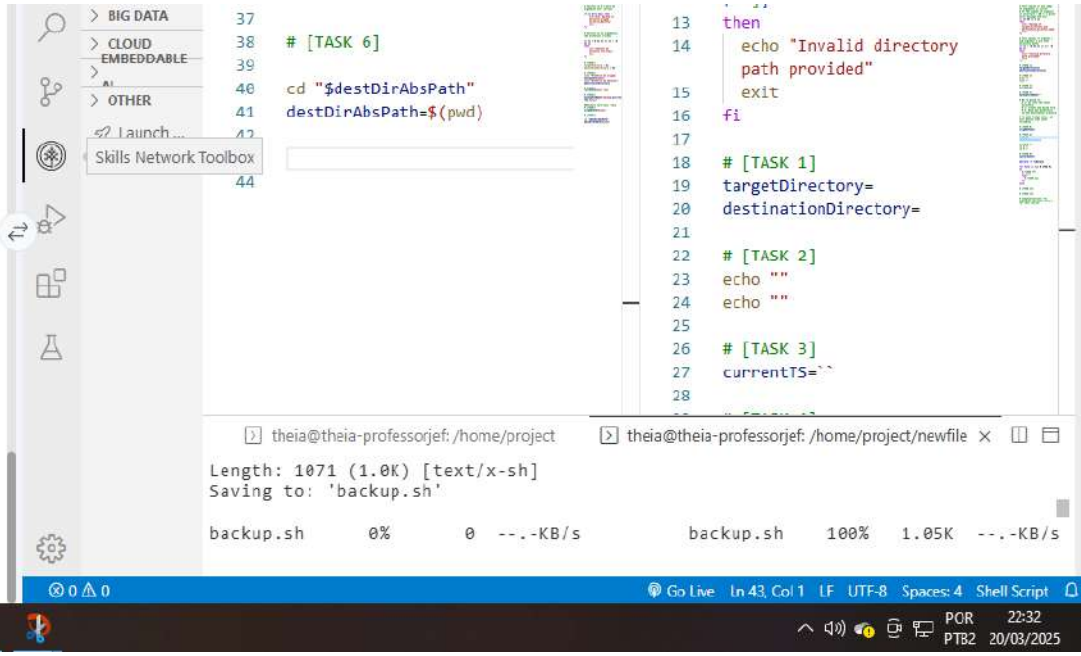
Task 6

1. Define a variable called `destAbsPath` whose value equals the absolute path of the destination directory.

   ▼ Click here for Hint

   > *First use `cd` to go to `destinationDirectory`, then use the same method you used in **Task 5**.*

2. Take a screenshot of the code above and save it as `06-Define_Variable.jpg` or `.png`.



Task 7

1. Change directories from the current working directory to the target directory `targetDirectory`.

   ▸ Click here for Hint

2. Take a screenshot of the code above and save it as `07-Change_Directory.jpg` or `.png`.

Task 8

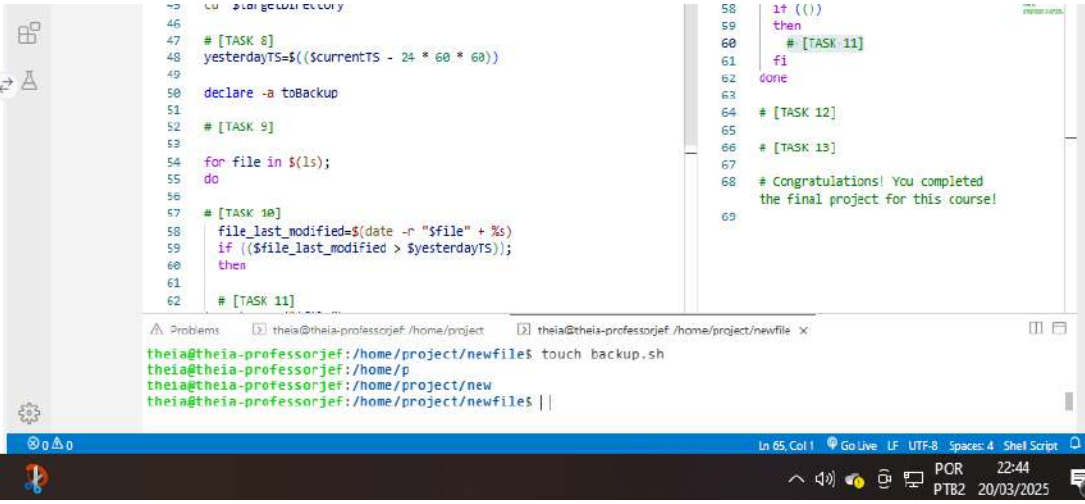
You need to find files that have been updated within the past 24 hours. This means you need to find all files whose last-modified date was 24 hours ago or less.

To do make this easier:

1. Define a numerical variable called `yesterdayTS` as the timestamp (in seconds) 24 hours prior to the current timestamp, `currentTS`.

   ▸ Click here for Hint

2. Take a screenshot of the code above and save it as `08-YesterdayTS.jpg` or `.png`.



Task 9

1. Within the `$()` expression inside the `for` loop, write a command that will return all files and directories in the current folder.

   ▼ Click here for Hint

   > *There is a very clean way of doing this using* `ls` .

2. Take a screenshot of the code above and save it as `09-List_AllFilesandDirectoriess.jpg` or `.png` .

Task 10

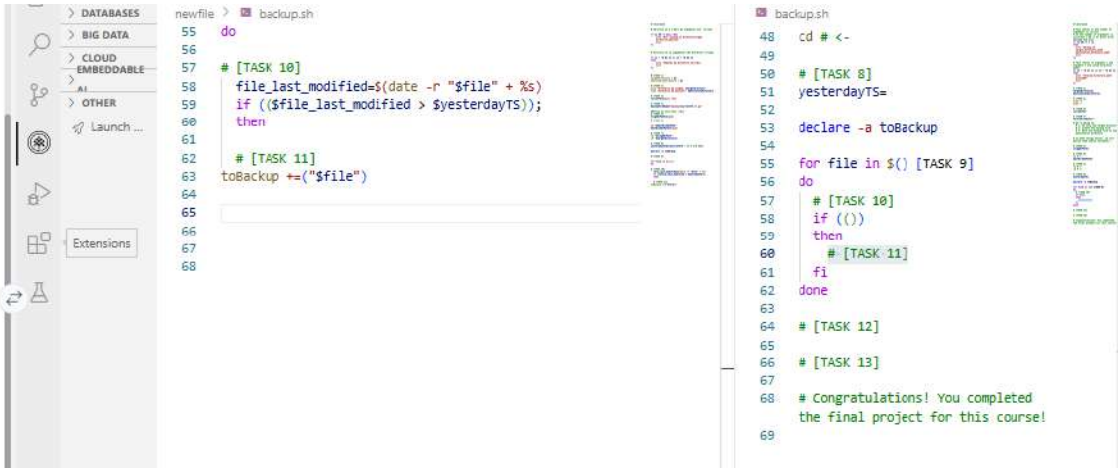
1. Inside the `for` loop, you want to check whether the `$file` was modified within the last 24 hours.

> *To get the last-modified date of a file in seconds, use `date -r $file +%s` then compare the value to `yesterdayTS`.*
>
> *`if [[ $file_last_modified_date > $yesterdayTS ]]` then the file was updated within the last 24 hours!*

2. Since much of this wasn't covered in the course, for this task you may copy the code below and paste it into the double round brackets `(())`:

```
1  `date -r $file +%s` > $yesterdayTS
```

3. Take a screenshot of the code above and save it as `10-IF_Statement.jpg` or `.png`.

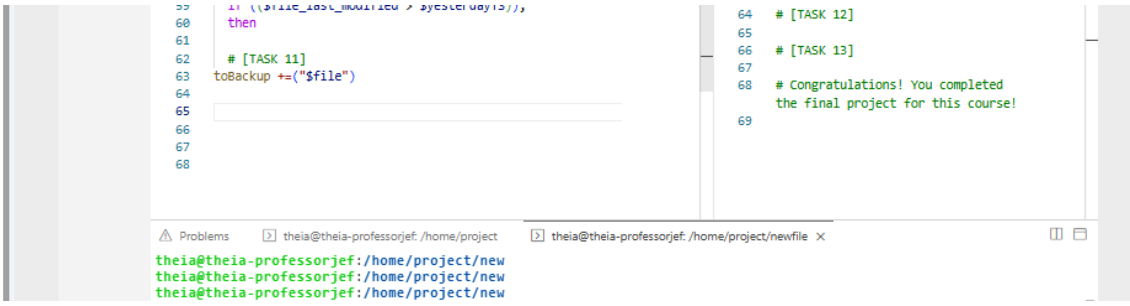


Task 11

1. In the `if-then` statement, add the `$file` that was updated in the past 24-hours to the `toBackup` array.
2. Since much of this wasn' t covered in the course, you may copy the code below and place after the `then` statement for this task:

```
toBackup+=($file)
```

3. Take a screenshot of the code above and save it as `11-Add_File.jpg` or `.png`.



Task 12

1. After the `for` loop, **compress** and **archive** the files, using the `$toBackup` array of filenames, to a file with the name `backupFileName`.

   ▼ Click here for Hint

   > *Use* `tar -czvf $backupFileName ${toBackup[@]}`.

2. Take a screenshot of the code above and save it as `12-Create_Backup.jpg` or `.png`.

Task 13

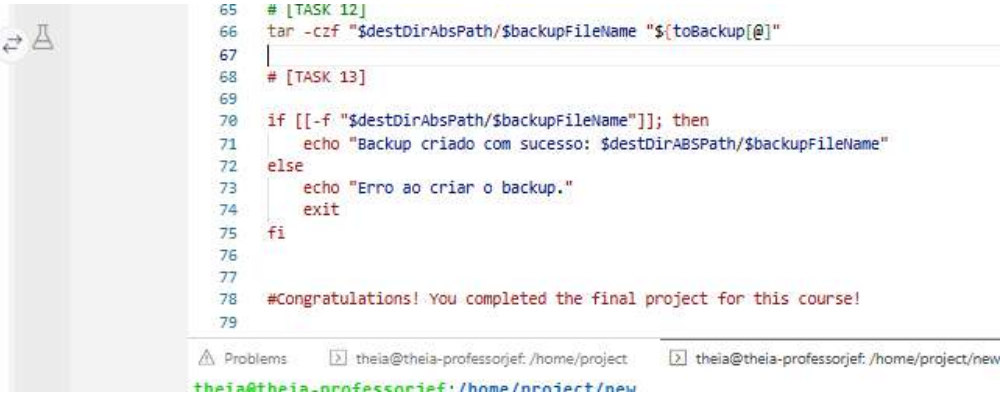
Now the file `$backupFileName` is created in the current working directory.

▼ Click here for Hint

> *Move the file `backupFileName` to the destination directory located at `destAbsPath`.*

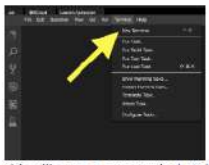
2. Take a screenshot of the code above and save it as `13-Move_Backup.jpg` or `.png`.

Congratulations! You have now done the coding portion of the lab!



Task 15

1. Open a new terminal by clicking on the menu bar and selecting **Terminal->New Terminal**, as in the image below:



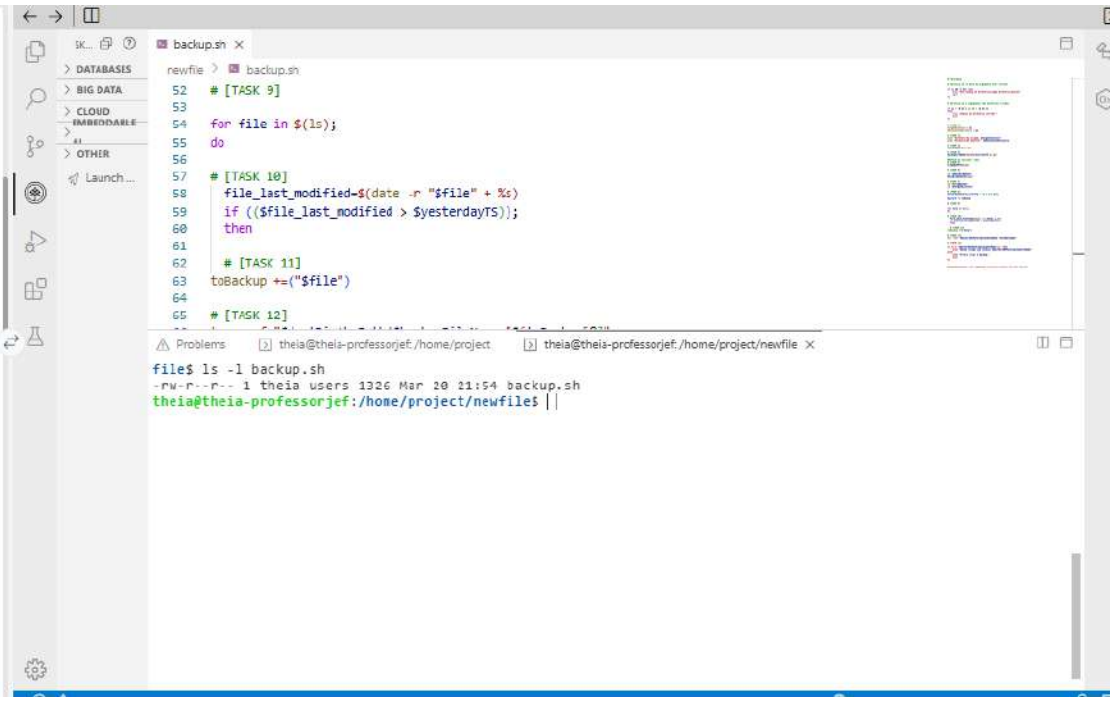
This will open a new terminal at the bottom of the screen as seen below:

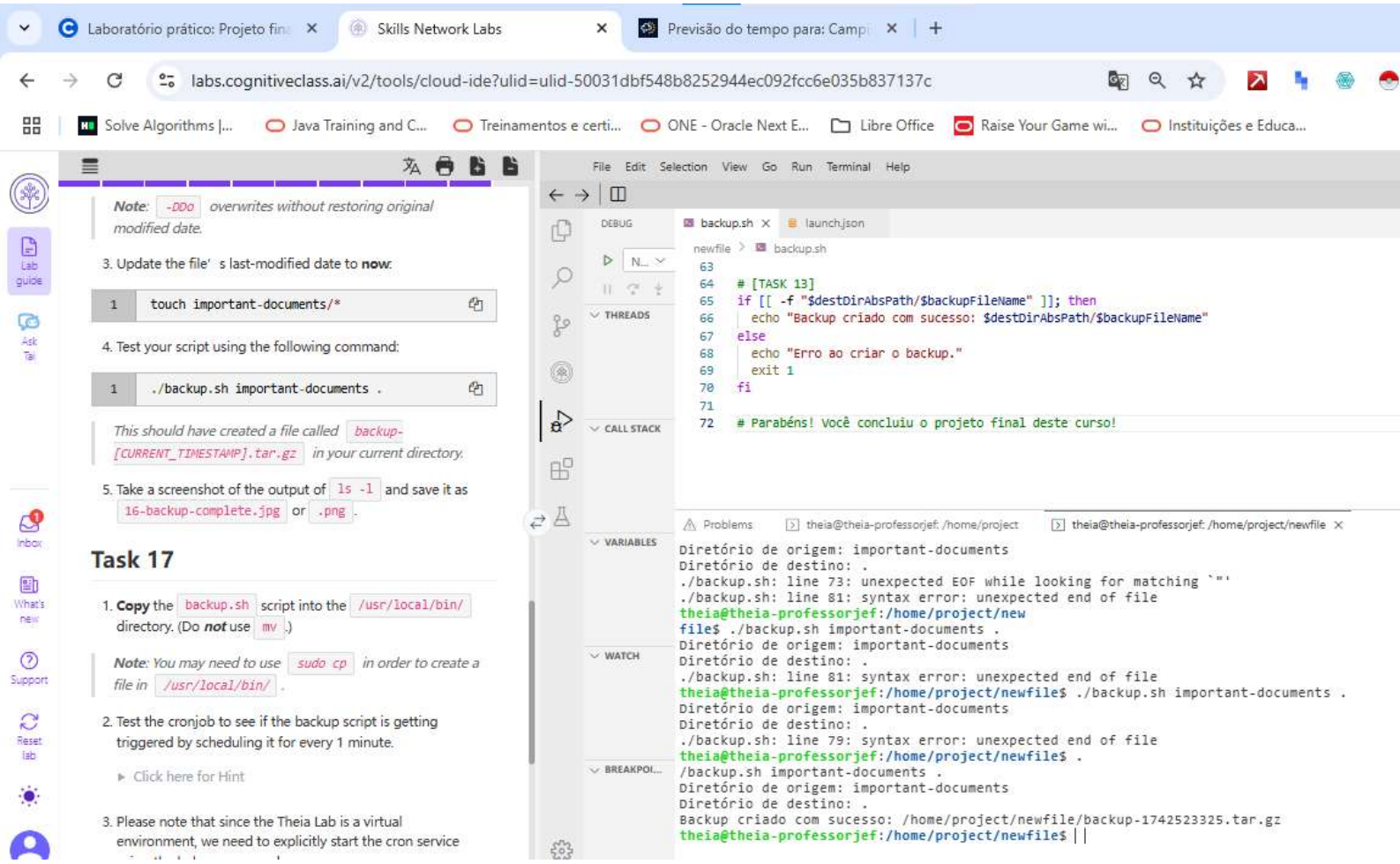
2. Save the `backup.sh` file you're working on and make it executable.

   ▼ Click here for Hint

   > *Use the `chmod` command with the correct options.*

3. Verify the file is executable using the `ls` command with the `-l` option.




Laboratório prático: Projeto fin
Skills Network Labs
Previsão do tempo para: Camp
labs.cognitiveclass.ai/v2/tools/cloud-ide?ulid=ulid-50031dbf548b8252944ec092fcc6e035b837137c
Solve Algorithms |...
Java Training and C...
Treinamentos e certi...
ONE - Oracle Next E...
Libre Office
Raise Your Game wi...
Instituições e Educa...
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What's new
Support
Reset lab
Note: -DDO overwrites without restoring original modified date.
3. Update the file' s last-modified date to now:
1 touch important-documents/*
4. Test your script using the following command:
1 ./backup.sh important-documents .
This should have created a file called backup-[CURRENT_TIMESTAMP].tar.gz in your current directory.
5. Take a screenshot of the output of ls -l and save it as 16-backup-complete.jpg or .png .
Task 17
1. Copy the backup.sh script into the /usr/local/bin/ directory. (Do not use mv .)
Note: You may need to use sudo cp in order to create a file in /usr/local/bin/ .
2. Test the cronjob to see if the backup script is getting triggered by scheduling it for every 1 minute.
Click here for Hint
3. Please note that since the Theia Lab is a virtual environment, we need to explicitly start the cron service
File Edit Selection View Go Run Terminal Help
DEBUG
backup.sh
launch.json
newfile > backup.sh
63
64 # [TASK 13]
65 if [[-f "$destDirAbsPath/$backupFileName"]]; then
66 echo "Backup criado com sucesso: $destDirAbsPath/$backupFileName"
67 else
68 echo "Erro ao criar o backup."
69 exit 1
70 fi
71
72 # Parabéns! Você concluiu o projeto final deste curso!
THREADS
CALL STACK
VARIABLES
WATCH
BREAKPOI...
Problems
theia@theia-professorjef: /home/project
theia@theia-professorjef: /home/project/newfile
Diretório de origem: important-documents
Diretório de destino: .
./backup.sh: line 73: unexpected EOF while looking for matching `"'
./backup.sh: line 81: syntax error: unexpected end of file
theia@theia-professorjef:/home/project/new
file$ ./backup.sh important-documents .
Diretório de origem: important-documents
Diretório de destino: .
./backup.sh: line 81: syntax error: unexpected end of file
theia@theia-professorjef:/home/project/newfile$ ./backup.sh important-documents .
Diretório de origem: important-documents
Diretório de destino: .
./backup.sh: line 79: syntax error: unexpected end of file
theia@theia-professorjef:/home/project/newfile$.
/backup.sh important-documents .
Diretório de origem: important-documents
Diretório de destino: .
Backup criado com sucesso: /home/project/newfile/backup-1742523325.tar.gz
theia@theia-professorjef:/home/project/newfile$