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#### Laboratorio 3

# Construcción de la imagen del contenedor

```
isaackeitor@Josues-MacBook-Air lab-3 % docker build --rm . -t lab2-image && docker run --rm -ti -v "$(pwd)/program":/program lab2-image [+] Building 1028.8s (25/25) FINISHED docker:desktop-linux
0.08
                                                                                                                0.05
  => CACHED [ 1/20] FROM docker.io/library/ubuntu:latest@sha256:2e863c44b7 0.0s
=> [ 2/20] RUN apt-get update && apt-get install -y curl bash- 829.2s
  => [internal] load build context
  > > > transferring context: 2.14MB 0.0s

>> [ 3/20] RUN add-apt-repository ppa:deadsnakes/ppa 65.2s

>= [ 4/20] RUN apt-get update && apt-get install -y python3-pip 222.5s

>= [ 5/20] COPY antlr-4.13.1-complete.jar /usr/local/lib/antlr-4.13.1-co 0.0s
  => [ 6/20] COPY ./commands/antlr /usr/local/bin/antlr
=> [ 7/20] RUN chmod +x /usr/local/bin/antlr
                                                                                                                0.1s
  => [ 8/20] COPY ./commands/antlr /usr/bin/antlr
  => [ 9/20] RUN chmod +x /usr/bin/antlr
=> [10/20] COPY ./commands/grun /usr/local/bin/grun
                                                                                                                0.1s
                                                                                                                0.0s
  => [11/20] RUN chmod +x /usr/local/bin/grun
=> [12/20] COPY ./commands/grun /usr/bin/grun
                                                                                                               0.1s
                                                                                                                0.0s
  => [13/20] RUN chmod +x /usr/bin/grun
                                                                                                                0.1s
  => [14/20] COPY python-venv.sh .
                                                                                                                0.05
      [15/20] RUN chmod +x ./python-venv.sh
  => [16/20] RUN ./python-venv.sh
=> [17/20] COPY requirements.txt
                                                                                                                0.15
                                                                                                                0.0s
  => [18/20] RUN pip install -r requirements.txt --break-system-packages
=> [19/20] RUN adduser --disabled-password --gecos "" --hoi
                                         --disabled-password --gecos "
                                                                                                                0.1s
  => [20/20] WORKDIR /program
  => exporting to image
                                                                                                                1.8s
  => => exporting layers
  => => writing image sha256:36d2366df960d0480119855af4a74efa52d7770187b0e
=> => naming to docker.io/library/lab2-image
```

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/3omz556bwvbppn2ihp9ncbiaj

#### What's next:

View a summary of image vulnerabilities and recommendations → docker scout quickview appuser@a0d2bef66a10:/program\$ ls

#### <u>Preparación del ambiente</u>

```
appuser@102658a573b4:/programs ls
ConfRoomScheduler.g4 DriverConfroom.py initial-analyzer.py program_test_confroom.txt semantic-listener.py
lappuser@102658a573b4:/programs antlr -Olanpuage=Python3 -o gen ConfRoomScheduler.g4
lappuser@102658a573b4:/programs ls
ConfRoomScheduler.g4 DriverConfroom.py gen initial-analyzer.py program_test_confroom.txt semantic-listener.py
lappuser@102658a573b4:/programs dg gen
lappuser@102658a573b4:/programs dg gen
lappuser@102658a573b4:/programs dgen
lappuser@102658a573b4:/programs dgen
lappuser@102658a573b4:/program/gens ls
ConfRoomScheduler.interp ConfRoomScheduler.tokens ConfRoomSchedulerLexer.py
lappuser@102658a573b4:/program/gens ls
ConfRoomScheduler.gapuser@102658a573b4:/program/gens ls
ConfRoomScheduler.gapuser@
```

#### Respuesta 5.2

# lab-3 > program > ≡ program0\_test\_confroom.txt

1 RESERVAR BIBLIOTECA PARA 21/07/2024 DE 10:00 A 08:00 POR JOSUE

```
appuser@f7d1c7cc1573:/program$ python3 semantic-listener.py program0_test_confroom.txt
(prog (stat (reserve RESERVAR BIBLIOTECA1 PARA 21/07/2024 DE 10:00 A 08:00 POR JOSUE) \n))
Traceback (most recent call last):
  File "/program/semantic-listener.py", line 116, in <module>
    main()
  File "/program/semantic-listener.py", line 113, in main
    walker.walk(semantic_checker, tree)
  File "/usr/local/lib/python3.12/dist-packages/antlr4/tree/Tree.py", line 160, in walk
    self.walk(listener, child)
  File "/usr/local/lib/python3.12/dist-packages/antlr4/tree/Tree.py", line 158, in walk
    self.enterRule(listener, t)
  File "/usr/local/lib/python3.12/dist-packages/antlr4/tree/Tree.py", line 178, in enterRule
    ctx.enterRule(listener)
  File "/program/gen/ConfRoomSchedulerParser.py", line 189, in enterRule
    listener.enterReserveStat(self)
  \label{line:py} {\tt File "/program/semantic-listener.py", line 66, in enterReserveStat}
    raise ValueError(f"Error: The start time {start_time} must be before the end time {end_time}")
ValueError: Error: The start time 10:00 must be before the end time 08:00
appuser@f7d1c7cc1573:/program$
```

#### Actividades

1. Programa que reserve una sala de conferencias

```
lab-3 > program > ≡ program_test_confroom0.txt

1 RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 08:00
2
```

[appuser@1a8199e7996d:/program\$ antlr -Dlanguage=Python3 -o gen ConfRoomScheduler.g4
[appuser@1a8199e7996d:/program\$ python3 semantic-listener.py program\_test\_confroom0.txt
(prog (stat (reserve RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 08:00) \n))

2. Programa que cancele una reserva de sala de conferencias

```
lab-3 > program > ≡ program_test_confroom1.txt

1 CANCELAR SALA1 PARA 13/12/2024 DE 07:00 A 08:00

2
```

[appuser@1a8199e7996d:/program\$ python3 semantic-listener.py program\_test\_confroom1.txt (prog (stat (cancel CANCELAR SALA1 PARA 13/12/2024 DE 07:00 A 08:00) \n))

3. Prueba con varias reservas y cancelaciones en un mismo programa

```
lab-3 > program > ≡ program_test_confroom2.txt

1    RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 08:00
2    CANCELAR SALA1 PARA 13/12/2024 DE 07:00 A 08:00
3
4    RESERVAR SALA2 PARA 13/12/2024 DE 07:00 A 08:00
5    CANCELAR SALA2 PARA 13/12/2024 DE 07:00 A 08:00
6
7    RESERVAR SALA3 PARA 13/12/2024 DE 07:00 A 08:00
8    CANCELAR SALA3 PARA 13/12/2024 DE 07:00 A 08:00
9
10    RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00
11    CANCELAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00
12
```

appuser@18819927996d:/program5 python3 semantic-listener.py program\_test\_confrom2.txt
(prog (stat (reserve RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (cancel CANCELAR SALA1 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA2 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA2 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA3 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07:00 A 08:00) \n) (stat (reserve RESERVAR SALA4 PARA 13/12/2024 DE 07

#### 4. Inclusión de nombre del solicitante

```
lab-3 > program > = program_test_confroom3.txt

1 RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 08:00 POR JOSUE
2 CANCELAR SALA1 PARA 13/12/2024 DE 07:00 A 08:00 POR MARCO
3
```

appuser@8f9b3caafa2e:/program\$ python3 semantic-listener.py program\_test\_confroom3.txt
(prog (stat (reserve RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 08:00 POR JOSUE) \n) (stat (cancel CANCELAR SALA1 PARA 13/12/2024 DE 07:00 A 08:00 POR MARCO) \n))

# 5. Agregación de manejo de errores para fechas u horas inválidas

lab-3 > program > ≡ program\_test\_confroom4.txt

```
RESERVAR SALA1 PARA 13/12/2024 DE 07:70 A 08:00 POR JOSUE

2 RESERVAR SALA1 PARA 02/11/2024 DE 07:00 A 08:00 POR MARCO

|appuser@8f9b3caafa2e:/program$ python3 semantic-listener.py program_test_confroom4.txt
line 2:57 missing NEWLINE at '<50F>'
(prog (stat (reserve RESERVAR SALA1 PARA 13/12/2024 DE 07:70 A 08:00 POR JOSUE) \n) (stat (reserve RESERVAR SALA1 PARA 02/11/2024 DE 07:00 A 08:00 POR MARCO) <mis sing NEWLINE>)

Traceback (most recent call last):
File "/program/semantic-listener.py", line 116, in <module>
main()
File "/program/semantic-listener.py", line 113, in main
walker.walk(semantic_checker, tree)
File "/usr/local/lib/python3.12/dist-packages/antlr4/tree/Tree.py", line 158, in walk
self.enterRule(listener, child)
File "/usr/local/lib/python3.12/dist-packages/antlr4/tree/Tree.py", line 178, in enterRule
ctx.enterRule(listener, child)
File "/program/semantic-listener.py", line 189, in enterRule
listener.enterRuse(ristener)
File "/program/semantic-listener.py", line 59, in enterRuse
raise ValueError("Error: Invalid time 67:70 to 08:00
```

```
lab-3 > program > ≡ program_test_confroom5.txt

1 RESERVAR SALA1 PARA 40/12/2024 DE 07:00 A 08:00 POR JOSUE
2 RESERVAR SALA1 PARA 02/11/2024 DE 07:00 A 08:00 POR MARCO
3
```

# 6. Programa que incluye reservas solapadas y verifica su manejo

# lab-3 > program > ≡ program\_test\_confroom6.txt

- 1 RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE
- 2 RESERVAR SALA1 PARA 13/12/2024 DE 08:00 A 10:00 POR MARCO

```
| appuser@8f9b3caafa2e:/program$ python3 semantic-listener.py program_test_confroom6.txt | line 2:57 missing NEWLINE at '<EOF>' (prog (stat (reserve RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE) \n) (stat (reserve RESERVAR SALA1 PARA 13/12/2024 DE 08:00 A 10:00 POR MARCO) <mis sing NEWLINE>)) |
Traceback (most recent call last): File "/program/semantic-listener.py", line 116, in <module> main() | File "/program/semantic-listener.py", line 113, in main walker.walk(semantic_checker, tree) | File "/program/semantic_checker, tree) | File "/usr/local/lib/python3.12/dist-packages/antlr4/tree/Tree.py", line 160, in walk self.walk(listener, child) | File "/usr/local/lib/python3.12/dist-packages/antlr4/tree/Tree.py", line 158, in walk self.enterRule(listener, t) | File "/usr/local/lib/python3.12/dist-packages/antlr4/tree/Tree.py", line 178, in enterRule | tistener.py", line 178, in enterRule | tistener.py", line 178, in enterRule | tistener.py", line 179, in enterRule | tistener.py", line 174, in enterReserveStat | File "/program/gen/ConfRoomSchedulerParser.py", line 189, in enterRule | tistener.enterReserveStat(self) | File "/program/semantic-listener.py", line 74, in enterReserveStat | File "/program/semantic-listener.py", line 189, overlaps with an existing reservation") | ValueError: The reservation 13/12/2024 08:00 to 10:00 overlaps with an existing reservation
```

# lab-3 > program > ≡ program\_test\_confroom7.txt

- 1 RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE
- 2 RESERVAR SALA1 PARA 13/12/2024 DE 08:00 A 09:00 POR MARCO

```
lappuser@8f9b3caafa2e:/program$ python3 semantic-listener.py program_test_confroom7.txt
line 2:57 missing NEWLINE at '<EOF>'
(prog (stat (reserve RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE) \n) (stat (reserve RESERVAR SALA1 PARA 13/12/2024 DE 08:00 A 09:00 POR MARCO) <mis
sing NeWLINE>)
Traceback (most recent call last):
    File "/program/semantic-listener.py", line 116, in <module>
    main()
    File '/program/semantic-listener.py", line 113, in main
    walker.walk(semantic_checker, tree)
    File "/usr/local/lib/python3.12/dist-packages/antlr4/tree/Tree.py", line 160, in walk
    self.walk(listener, child)
    File "/usr/local/lib/python3.12/dist-packages/antlr4/tree/Tree.py", line 158, in walk
    self.enterRule(listener, t)
    File "/usr/local/lib/python3.12/dist-packages/antlr4/tree/Tree.py", line 178, in enterRule
    ctx.enterRule(listener)
    File "/program/gen/ConfRoomSchedulerParser.py", line 189, in enterRule
    listener.enterRuleserveStat(self)
    File "/program/semantic-listener.py", line 74, in enterReserveStat
    raise ValueError(f"Error: The reservation (date) (start_time) to (end_time) overlaps with an existing reservation")
ValueError: Error: The reservation 13/12/2024 08:00 to 09:00 overlaps with an existing reservation
```

# lab-3 > program > ≡ program\_test\_confroom8.txt

- 1 RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE
- 2 RESERVAR SALA1 PARA 13/12/2024 DE 06:00 A 08:00 POR MARCO

```
appuser@8f9D3caafa2e:/program$ python3 semantic-listener.py program_test_confroom8.txt
line 2:67 missing NEMLINE at '<EOF>'
(prog (stat (reserve RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE) \n) (stat (reserve RESERVAR SALA1 PARA 13/12/2024 DE 06:00 A 08:00 POR MARCO) <mis
sing NEMLINE>))
Traceback (most recent call last):
File '/program/semantic-listener.py", line 116, in <module>
main()
File '/program/semantic-listener.py", line 113, in main
walker.walk(semantic_checker, tree)
File "/usr/local/lib/python3.12/dist-packages/antIr4/tree/Tree.py", line 160, in walk
soff.walk(listener, child)
File "/usr/local/lib/python3.12/dist-packages/antIr4/tree/Tree.py", line 158, in walk
soff.walk(listener, child)
File "/usr/local/lib/python3.12/dist-packages/antIr4/tree/Tree.py", line 178, in enterRule
ctx.enterRule(listener, t)
File "/usr/local/lib/python3.12/dist-packages/antIr4/tree/Tree.py", line 178, in enterRule
listener:enterRule(stener)
File "/program/gen/ConfRoomSchedulerParser.py", line 189, in enterRule
listener:enterRulescrevStat(self)
File "/program/semantic-listener.py", line 74, in enterReserveStat
raise ValueError("Effror: The reservation (date) {start_time} to (end_time) overlaps with an existing reservation")
ValueError: Error: The reservation (date) {start_time} to (end_time) overlaps with an existing reservation")
```

# lab-3 > program > = program\_test\_confroom9.txt

- 1 RESERVAR SALA1 PARA 13/12/2024 DE 05:00 A 07:00 POR JOSUE
- 2 RESERVAR SALA1 PARA 13/12/2024 DE 06:00 A 08:00 POR MARCO

```
appuser@8f9b3caafa2e:/program$ python3 semantic-listener.py program_test_confroom9.txt
line 2:57 missing NEWLINE at '<EOF>'
(prog (stat (reserve RESERVAR SALA1 PARA 13/12/2024 DE 05:00 A 07:00 POR JOSUE) \n) (stat (reserve RESERVAR SALA1 PARA 13/12/2024 DE 06:00 A 08:00 POR MARCO) <mis
sing NEWLINE>))
Traceback (most recent call last):
File "/program/semantic-listener.py", line 116, in <module>
main()
File "/program/semantic-listener.py", line 113, in main
walker.walk(semantic_checker, tree)
File "/usr/local/lib/python3.12/dist-packages/antlr4/tree/Tree.py", line 160, in walk
self.walk(listener, child)
File "/usr/local/lib/python3.12/dist-packages/antlr4/tree/Tree.py", line 158, in walk
self.enterRule(listener, t)
File "/usr/local/lib/python3.12/dist-packages/antlr4/tree/Tree.py", line 178, in enterRule
ctx.enterRule(listener)
File "/program/gen/ConfRoomSchedulerParser.py", line 189, in enterRule
listener.enterReserveStat(self)
File "/program/semantic-listener.py", line 74, in enterReserveStat
raise ValueError(f"Error: The reservation (date) { start_time} to {end_time} overlaps with an existing reservation")
ValueError: Error: The reservation 13/12/2024 06:00 to 08:00 overlaps with an existing reservation
```

# 7. Extensión para soporte de descripción de eventos

```
| lab-3 > program > ≡ program_test_confroom10.txt
| 1 RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE "Trabajo de graduacion"
| 2 Napuser@879b3caafa2e:/program$ python3 semantic-listener.py program_test_confroom10.txt
| appuser@879b3caafa2e:/program$ python3 semantic-listener.py program_test_confroom10.txt
| (prog (stat (reserve RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE (description "Trabajo de graduacion")) \n) (stat (reserve RESERVAR SALA1 PARA 02/11)
```

(prog (stat (reserve RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE (description "Trabajo de graduacion")) \n) (stat (reserve RESERVAR SALA1 PARA 02//2024 DE 06:00 A 08:00 POR MARCO (description "Revision de tesis")) \n)) appuser@8f9b3caafa2e:/program\$

# 8. Agregación de restricción de tiempo de uso máximo

```
lab-3 > program > ≡ program_test_confroom11.txt

1 RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 12:00 POR JOSUE "Cumpleanos"
```

```
lappuser@8f9b3caafa2e:/program$ python3 semantic—listener.py program_test_confroom11.txt
line 1:70 missing NEWLINE at 't 'tCOPY
(prog (stat (reserve RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 12:00 POR JOSUE (description "Cumpleanos")) <missing NEWLINE>))
Traceback (most recent call last):
File "/program/semantic—listener.py", line 116, in <module>
    main()
File "/program/semantic—listener.py", line 113, in main
    walker.walk(semantic_checker, tree)
File "/usr/local/lib/python3.12/dist—packages/antlr4/tree/Tree.py", line 160, in walk
    self.walk(listener, child)
File "/usr/local/lib/python3.12/dist—packages/antlr4/tree/Tree.py", line 158, in walk
    self.enterRule(listener, t)
File "/usr/local/lib/python3.12/dist—packages/antlr4/tree/Tree.py", line 178, in enterRule
    ctx.enterRule(listener)
File "/program/gen/ConfRoomSchedulerParser.py", line 189, in enterRule
    listener.enterReserveStatt(self)
File "/program/semantic—listener.py", line 71, in enterReserveStat
    raise ValueError(f"Error: The reservation duration (duration) exceeds the maximum allowed time of {self.MAX_USAGE_TIME}")
ValueError: Error: The reservation duration 5:00:00 exceeds the maximum allowed time of $1.00 to the content of the co
```

# lab-3 > program > ≡ program\_test\_confroom12.txt

RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE "Cumpleanos"

appuser@8f9b3caafa2e:/program\$ python3 semantic-listener.py program\_test\_confroom12.txt line 1:70 missing NEWLINE at '<EOF>'

(prog (stat (reserve RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE (description "Cumpleanos")) <missing NEWLINE>))

# 9. Implementación de funcionalidad para listado de reservas existentes

lab-3 > program > ≡ program\_test\_confroom13.txt

- RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE
- RESERVAR SALA1 PARA 02/11/2024 DE 06:00 A 08:00 POR MARCO
- 3 LISTAR RESERVACIONES

appuser@8f9b3caafa2e:/program\$ python3 semantic-listener.py program\_test\_confroom13.txt
line 3:20 missing NEWLINE at '<EOF>'
(prog (stat (reserve RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE) \n) (stat (reserve RESERVAR SALA1 PARA 02/11/2024 DE 06:00 A 08:00 POR MARCO) \n)
(stat (tolist LISTAR RESERVACIONES) <missing NEWLINE>))

Existing Reservations:

RESERVACION EN SALA1 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE

RESERVACION EN SALA1 PARA 02/11/2024 DE 06:00 A 08:00 POR MARCO

# 10. Programa que utiliza todas las características extendidas del DSL

lab-3 > program > ≡ program\_test\_confroom14.txt

- RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE "Cumpleanos"
- RESERVAR SALA2 PARA 13/12/2024 DE 07:00 A 09:00 POR MARIO "Firma de contrato"
- CANCELAR SALA1 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE
- STAR RESERVACIONES
- 5

appuser@4ce49482469f:/program\$ python3 semantic-listener.py program\_test\_confroom14.txt
(prog (stat (reserve RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE (description "Cumpleanos")) \n) (stat (reserve RESERVAR SALA2 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE) \n) (stat (tolist LISTAR RES ERVACIONES) \n))

Existing Reservations:

RESERVACION EN SALA2 PARA 13/12/2024 DE 07:00 A 09:00 POR MARIO

appuser@4ce49482469f:/program\$

# 13 y 14 Reprogramación de reservas

```
lab-3 > program > ≡ program_test_confroom15.txt

1 RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE "Cumpleanos"
2 RESERVAR SALA2 PARA 13/12/2024 DE 07:00 A 09:00 POR MARIO "Firma de contrato"
3 REPROGRAMAR SALA1 13/12/2024 07:00 A 09:00 POR JOSUE PARA 13/12/2024 DE 10:00 A 12:00 "Cambio de horario"
4 LISTAR RESERVACIONES
5
```

appuser@e511e2e79bdc:/program\$ python3 semantic-listener.py program\_test\_confroom15.txt
(prog (stat (reserve RESERVAR SALA1 PARA 13/12/2024 DE 07:00 A 09:00 POR JOSUE (description "Cumpleanos")) \n) (stat (reserve RESERVAR SALA2 PARA 13/12/2024 DE 07:00 A 09:00 POR MARIO (description "Firma de contrato")) \n) (stat (reserve RESERVAR SALA2 PARA 13/12/2024 DE 10:00 A 12:00 A 09:00 POR MARIO (description "Cambio de horario")) \n) (stat (toList LISTAR RESERVACIONES) \n))

Existing Reservations:

RESERVACION EN SALA1 PARA 13/12/2024 DE 10:00 A 12:00 POR JOSUE

RESERVACION EN SALA2 PARA 13/12/2024 DE 07:00 A 09:00 POR MARIO

appuser@e511e2e79bdc:/program\$