

```

afif@afif-HP-Laptop-17-cn0008ca:~/eclipse-workspace/AC3$ ./runner.sh
added manifest
adding: com/(in = 0) (out= 0)(stored 0%)
adding: com/comp6591/(in = 0) (out= 0)(stored 0%)
adding: com/comp6591/lib/(in = 0) (out= 0)(stored 0%)
adding: com/comp6591/lib/MultiValueMap.class(in = 1947) (out= 963)(deflated 50%)
adding: com/comp6591/lib/Clause.class(in = 6028) (out= 2785)(deflated 53%)
adding: com/comp6591/lib/ParseKB$1.class(in = 715) (out= 459)(deflated 35%)
adding: com/comp6591/lib/ParseKB.class(in = 7637) (out= 3634)(deflated 52%)
adding: com/comp6591/lib/Clause$TYPE.class(in = 1063) (out= 565)(deflated 46%)
adding: com/comp6591/lib/ProgramParser.class(in = 2204) (out= 992)(deflated 54%)
META-INF/
META-INF/MANIFEST.MF
com/
com/comp6591/
com/comp6591/lib/
com/comp6591/lib/MultiValueMap.class
com/comp6591/lib/Clause.class
com/comp6591/lib/ParseKB$1.class
com/comp6591/lib/ParseKB.class
com/comp6591/lib/Clause$TYPE.class
com/comp6591/lib/ProgramParser.class
Enter the datalog file path :
/home/afif/eclipse-workspace/AC3/resources/dl.txt
Enter the database file path :
/home/afif/eclipse-workspace/AC3/resources/db.txt
EDB of the datalog Program: mother
father
ancestor
IDB of the datalog Program: parent
woman
ancestor
man
HU of the datalog Program: helen
judy
adam
tom
sandra
peter
daphne
roger
andrew
mark
HB of the datalog Program: parent(helen,judy)
parent(judy,helen)
parent(helen,adam)
parent(adam,helen)
parent(helen,tom)
parent(tom,helen)
parent(helen,sandra)
parent(sandra,helen)
parent(helen,peter)
parent(peter,helen)
parent(helen,daphne)
parent(daphne,helen)
parent(helen,roger)

```

```
enter query:
father(tom,adam).
father(tom, adam)
Tracer: parent(tom, adam)
Tracer: parent(tom, helen)
Tracer: parent(sandra, adam)
Tracer: parent(andrew, mark)
Tracer: parent(judy, roger)
Tracer: parent(peter, daphne)
Tracer: man(tom)
Tracer: woman(sandra)
Tracer: man(adam)
Tracer: woman(helen)
Tracer: man(andrew)
Tracer: man(mark)
Tracer: woman(judy)
Tracer: man(roger)
Tracer: man(peter)
Tracer: woman(daphne)
Tracer: father(X, Y) :- man(X), parent(X, Y)
Tracer: X
Tracer: tom
Tracer: Y
Tracer: adam
Tracer: man(tom)
Tracer: parent(tom, adam)
Tracer: parent(tom, helen)
Tracer: parent(sandra, adam)
Tracer: parent(andrew, mark)
Tracer: parent(judy, roger)
Tracer: parent(peter, daphne)
Tracer: man(tom)
man(tom)
Tracer: parent(tom, adam)
Tracer: parent(tom, adam)
parent(tom, adam)
true.
enter query:
exit
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```

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adding: com/comp6591/lib/Clause$TYPE.class(in = 1063) (out= 565)(deflated 46%)
adding: com/comp6591/lib/ProgramParser.class(in = 2204) (out= 992)(deflated 54%)
META-INF/
META-INF/MANIFEST.MF
com/
com/comp6591/
com/comp6591/lib/
com/comp6591/lib/MultiValueMap.class
com/comp6591/lib/Clause.class
com/comp6591/lib/ParseKB$1.class
com/comp6591/lib/ParseKB.class
com/comp6591/lib/Clause$TYPE.class
com/comp6591/lib/ProgramParser.class
DATALOG FILE PATH:
/home/afif/eclipse-workspace/AC3/resources/dl.txt
DATABASE FILE PATH:
/home/afif/eclipse-workspace/AC3/resources/db.txt
EDB: mother
father
ancestor
IDB: parent
woman
ancestor
man
HU (HERBRAND UNIVERSE): helen
judy
adam
tom
sandra
peter
daphne
roger
andrew
mark
ADOM (ACTIVE DOMAIN):
{helen judy adam tom sandra peter daphne roger andrew mark }
HB (HERBRAND BASE): parent(helen,judy)
parent(judy,helen)
parent(helen,adam)
parent(adam,helen)
parent(helen,tom)
parent(tom,helen)
parent(helen,sandra)
parent(sandra,helen)
parent(helen,peter)
parent(peter,helen)
parent(helen,daphne)
```

```
woman(daphne)
woman(daphne)
woman(roger)
woman(roger)
woman(andrew)
woman(andrew)
woman(mark)
woman(mark)
ENTER QUERY (TO EXIT TYPE 'QUIT'):
QUIT
ENTER NON GROUND QUERY (TO EXIT TYPE 'QUIT'):
woman(X).
woman(X)
[sandra]
ENTER NON GROUND QUERY (TO EXIT TYPE 'QUIT'):
parent(X,Y).
parent(X, Y)
[tom, adam]
ENTER NON GROUND QUERY (TO EXIT TYPE 'QUIT'):
QUIT
afif@afif-HP-Laptop-17-cn0008ca:~/eclipse-workspace/AC3$
```