

```
cbo1at@DESKTOP-2J752DH: /mnt/c/Users/pc/Desktop/hw11/hw11$ make
```

```
-----  
Removing compiled files...
```

```
-----  
Compiling...
```

```
-----  
Running the program....
```

```
=====
```

```
./hw11
```

```
*****
```

```
1-Add Family Tree  
2-Remove Family Tree  
3-Load Family Tree  
4-Exit
```

```
>> 1
```

```
*****
```

```
1-Add Node  
2-Save Family Tree  
3-Exit
```

```
>> 1
```

```
Enter the name of the person: Cemal
```

```
Enter the age of the person: 77
```

```
Cemal has been added to the family tree successfully !
```

```
*****
```

```
1-Add Node  
2-Save Family Tree  
3-Exit
```

```
>>> 1
```

```
Enter the name of the person: Ela
```

```
Enter the age of the person: 66
```

```
Enter the name of the mother: Gül
```

```
Enter the name of the father: Hasan
```

```
Ela has been added to the family tree successfully !
```

```
*****
```

```
1-Add Node  
2-Save Family Tree  
3-Exit
```

```
>> 1
```

```
Enter the name of the person: Emine
```

```
Enter the age of the person: 35
```

```
Enter the name of the mother: Ela
```

```
Enter the name of the father: Cemal
```

```
Emine has been added to the family tree successfully !
```

```
*****
```

```
1-Add Node  
2-Save Family Tree  
3-Exit
```

```
>>> 1
```

```
Enter the name of the person: Şule
```

```
Enter the age of the person: 35
```

```
Enter the name of the mother: Ela
```

```
Enter the name of the father: Cemal
```

```
Şule has been added to the family tree successfully !
```

```
*****
```

```

*****
1-Add Node
2-Save Family Tree
3-Exit
>> 1
Enter the name of the person: Ismail
Enter the age of the person: 40
Enter the name of the mother: Eylul
Enter the name of the father: Yusuf
Ismail has been added to the family tree successfully !
*****

1-Add Node
2-Save Family Tree
3-Exit
>> 1
Enter the name of the person: Ali
Enter the age of the person: 7
Enter the name of the mother: Emine
Enter the name of the father: Ismail
Ali has been added to the family tree successfully !
*****

1-Add Node
2-Save Family Tree
3-Exit
>> 2
Saving family tree to family3.txt...
family3.txt has been saved successfully...

Returning to main menu...
*****

1-Add Family Tree
2-Remove Family Tree
3-Load Family Tree
4-Exit
>> 4

Terminating...
=====
[SUCCESS] Completed tests....
cbolat@DESKTOP-2J752DH:/mnt/c/Users/pc/Desktop/hw11/hw11$ cat family3
cat: family3: No such file or directory
cbolat@DESKTOP-2J752DH:/mnt/c/Users/pc/Desktop/hw11/hw11$ cat family3.txt
Name:Cemal,Age:77,Mother:NULL,Father:NULL
Name:Ela,Age:66,Mother:NULL,Father:NULL
Name:Emine,Age:35,Mother:Ela,Father:Cemal
Name:Sule,Age:35,Mother:Ela,Father:Cemal
Name:Ismail,Age:40,Mother:NULL,Father:NULL
Name:Ali,Age:7,Mother:Emine,Father:Ismail
cbolat@DESKTOP-2J752DH:/mnt/c/Users/pc/Desktop/hw11/hw11$ cat family3.txt

```

```

cbolat@DESKTOP-2J752DH:/mnt/c/Users/pc/Desktop/hw11/hw11$ ls
Screenshot_1.png Screenshot_2.png add_family_tree.c family1.txt family2.txt family3.txt hw11 load.c main.c makefile menu.c remove_family.c search.c util.c util.h
cbolat@DESKTOP-2J752DH:/mnt/c/Users/pc/Desktop/hw11/hw11$ make
-----
Removing compiled files...
-----
Compiling...
-----
Running the program....
=====
./hw11
*****
1-Add Family Tree
2-Remove Family Tree
3-Load Family Tree
4-Exit
>> 2
Enter the name of txt file of the family tree: family2.txt
family2.txt has been removed successfully...
Other files are shifting...
Shifting is done...
*****
1-Add Family Tree
2-Remove Family Tree
3-Load Family Tree
4-Exit
>> 4

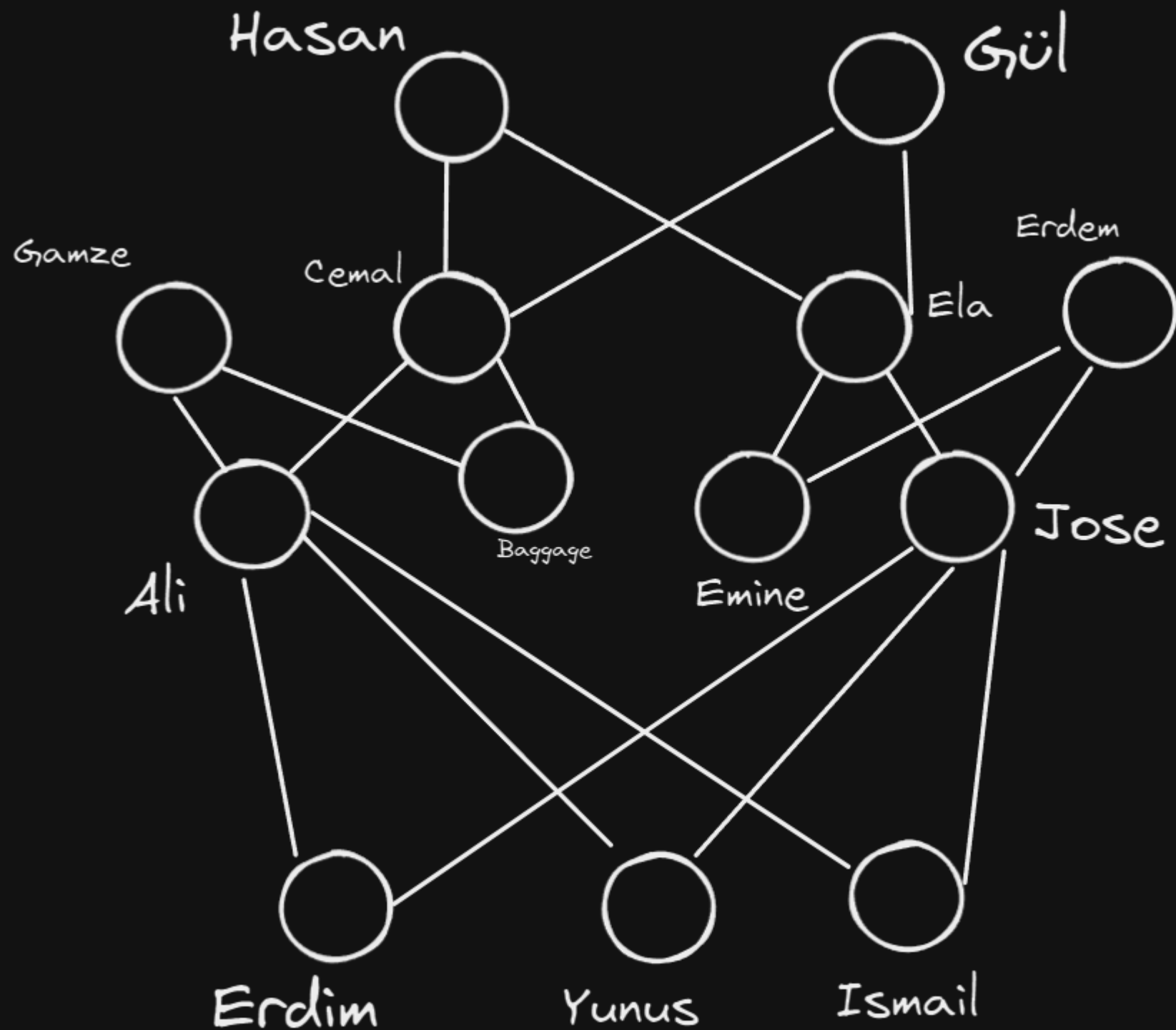
Terminating...
=====
[SUCCESS] Completed tests....
cbolat@DESKTOP-2J752DH:/mnt/c/Users/pc/Desktop/hw11/hw11$ ls
Screenshot_1.png Screenshot_2.png add_family_tree.c family1.txt family2.txt hw11 load.c main.c makefile menu.c remove_family.c search.c util.c util.h
cbolat@DESKTOP-2J752DH:/mnt/c/Users/pc/Desktop/hw11/hw11$ ls

```

After deleting family2.txt file
The other ones family3.txt file became the family2.txt
if we had family4.txt file it would also became family3.txt file

```
Screenshot_1.png Screenshot_2.png add_family_tree.c family1.txt family2.txt hw11 load.c main.c makefile menu.c remove_family.c search.c util.c util.h
cbo1at@DESKTOP-2J752DH:/mnt/c/Users/pc/Desktop/hw11/hw11$ cat family2.txt
Name:Cema1,Age:77,Mother:NULL,Father:NULL
Name:E1a,Age:66,Mother:NULL,Father:NULL
Name:Emine,Age:35,Mother:E1a,Father:Cema1
Name:Şule,Age:35,Mother:E1a,Father:Cema1
Name:Ismail,Age:40,Mother:NULL,Father:NULL
Name:Ali,Age:7,Mother:Emine,Father:Ismail
1 3 1 GREENEYES 00000000 /mnt/c/Users/pc/Desktop/hw11/hw11$ cat
```

It was recorded as family3.txt but after I deleted family2.txt this file shifted to family2.txt



tbolat@DESKTOP-2J752DH:/mnt/c/Users/pc/Desktop/hw11/hw11\$ cat family1.txt

Name:Hasan,Age:45,Mother:NULL,Father:NULL

Name:Gül,Age:47,Mother:NULL,Father:NULL

Name:Ela,Age:42,Mother:Gül,Father:Hasan

Name:Cemal,Age:44,Mother:Gül,Father:Hasan

Name:Gamze,Age:40,Mother:NULL,Father:NULL

Name:Erdem,Age:41,Mother:NULL,Father:NULL

Name:Ali,Age:41,Mother:Gamze,Father:Cemal

Name:Jose,Age:41,Mother:Ela,Father:Erdem

Name:Emine,Age:41,Mother:Ela,Father:Erdem

Name:Erdim,Age:41,Mother:Ali,Father:Jose

Name:Yunus,Age:41,Mother:Ali,Father:Jose

Name:Ismail,Age:8,Mother:Ali,Father:Jose

Name:Baggage,Age:7,Mother:Gamze,Father:Cemal

Name:Nurdan,Age:2,Mother:Gamze,Father:Cemal

tbolat@DESKTOP-2J752DH:/mnt/c/Users/pc/Desktop/hw11/hw11\$ make

Removing compiled files...

Compiling...

Running the program....

=====

./hw11

1-Add Family Tree

2-Remove Family Tree

3-Load Family Tree

4-Exit

>> 3

Listing Family Trees:

1-family1.txt

2-family2.txt

>> 1

family1.txt has been selected

Select an operation:

1-Add new person

2-Remove a person

3-Print a Person's nuclear family

4-Search Relatives of Given Person

5-Return to the main menu

>> 1

Enter the name of the person: Nuran

Enter the age of the person: 1

Enter the name of the mother: Gamze

Enter the name of the father: Cemal

Nuran has been added to the family tree successfully !

Select an operation:

1-Add new person

2-Remove a person

3-Print a Person's nuclear family

4-Search Relatives of Given Person

5-Return to the main menu

>> 5

Returning to the main menu...

family1.txt has been saved successfully...

```
1-Add Family Tree
2-Remove Family Tree
3-Load Family Tree
4-Exit
>> 4
```

Terminating...

=====

[SUCCESS] Completed tests....

cbolat@DESKTOP-2J752DH:/mnt/c/Users/pc/Desktop/hw11/hw11\$ cat family1.txt

Name:Hasan,Age:45,Mother:NULL,Father:NULL

Name:Gül,Age:47,Mother:NULL,Father:NULL

Name:Ela,Age:42,Mother:Gül,Father:Hasan

Name:Cemal,Age:44,Mother:Gül,Father:Hasan

Name:Gamze,Age:40,Mother:NULL,Father:NULL

Name:Erdem,Age:41,Mother:NULL,Father:NULL

Name:Ali,Age:41,Mother:Gamze,Father:Cemal

Name:Jose,Age:41,Mother:Ela,Father:Erdem

Name:Emine,Age:41,Mother:Ela,Father:Erdem

Name:Erdim,Age:41,Mother:Ali,Father:Jose

Name:Yunus,Age:41,Mother:Ali,Father:Jose

Name:Ismail,Age:8,Mother:Ali,Father:Jose

Name:Baggage,Age:7,Mother:Gamze,Father:Cemal

Name:Nurdan,Age:2,Mother:Gamze,Father:Cemal

Name:Nuran,Age:1,Mother:Gamze,Father:Cemal

cbolat@DESKTOP-2J752DH:/mnt/c/Users/pc/Desktop/hw11/hw11\$

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Removing compiled files...

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Running the program....

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./hw11

1-Add Family Tree

2-Remove Family Tree

3-Load Family Tree

4-Exit

>> 3

Listing Family Trees:

1-family1.txt

2-family2.txt

>> 1

family1.txt has been selected

Select an operation:

1-Add new person

2-Remove a person

3-Print a Person's nuclear family

4-Search Relatives of Given Person

5-Return to the main menu

>> 3

Enter the name of the person: Ali

Printing nuclear family of Ali

Father: Cemal

Mother: Gamze

Siblings: Baggage Murdan Nuran

Children: Erdim Yunus Ismail

Select an operation:

1-Add new person

2-Remove a person

3-Print a Person's nuclear family

4-Search Relatives of Given Person

5-Return to the main menu

>> 4

Enter the name of the person: Ali

Select type of relatives:

1-Parents

2-Spouse

3-Children

4-Grandparents

5-Cousins

>> 1

Printing parents of Ali

Mother: Gamze

Father: Cemal


```
*****
Select an operation:
1-Add new person
2-Remove a person
3-Print a Person's nuclear family
4-Search Relatives of Given Person
5-Return to the main menu
>> 4
Enter the name of the person: Ali
*****
Select type of relatives:
1-Parents
2-Spouse
3-Children
4-Grandparents
5-Cousins
>> 2
Printing spouse of Ali
Spouse: Jose
*****
Select an operation:
1-Add new person
2-Remove a person
3-Print a Person's nuclear family
4-Search Relatives of Given Person
5-Return to the main menu
>> 4
Enter the name of the person: Cemal
*****
Select type of relatives:
1-Parents
2-Spouse
3-Children
4-Grandparents
5-Cousins
>> 3
Printing children of Cemal
Children: Ali Baggage Nurdan Nuran
*****
Select an operation:
1-Add new person
2-Remove a person
3-Print a Person's nuclear family
4-Search Relatives of Given Person
5-Return to the main menu
>> 4
Enter the name of the person: Baggage
*****
```

```
*****
Select type of relatives:
1-Parents
2-Spouse
3-Children
4-Grandparents
5-Cousins
>> 4
Printing grandparents of Baggage
Maternal Grandmother: None
Maternal Grandfather: None
Paternal Grandmother: Gül
Paternal Grandfather: Hasan
*****
Select an operation:
1-Add new person
2-Remove a person
3-Print a Person's nuclear family
4-Search Relatives of Given Person
5-Return to the main menu
>> 4
Enter the name of the person: Baggage
*****
Select type of relatives:
1-Parents
2-Spouse
3-Children
4-Grandparents
5-Cousins
>> 5
Printing cousins of Baggage
Cousins: Jose Erdim
*****
Select an operation:
1-Add new person
2-Remove a person
3-Print a Person's nuclear family
4-Search Relatives of Given Person
5-Return to the main menu
>> 5

Returning to the main menu...
family1.txt has been saved successfully...
*****
1-Add Family Tree
2-Remove Family Tree
3-Load Family Tree
4-Exit
>> 4

Terminating...
```

```

1-Add Family Tree
2-Remove Family Tree
3-Load Family Tree
4-Exit
>> 3
Listing Family Trees:
1-family1.txt
2-family2.txt
>> 1
family1.txt has been selected
*****
Select an operation:
1-Add new person
2-Remove a person
3-Print a Person's nuclear family
4-Search Relatives of Given Person
5-Return to the main menu
>> 2
Enter the name of the person to remove: Ali
Warning: Ali has children, removing Ali will also remove their children.
Do you still want to continue (yes / no) : yes
Ali and their children will be removed from the family tree.
*****
Select an operation:
1-Add new person
2-Remove a person
3-Print a Person's nuclear family
4-Search Relatives of Given Person
5-Return to the main menu
>> 5
Returning to the main menu...
family1.txt has been saved successfully...
*****
1-Add Family Tree
2-Remove Family Tree
3-Load Family Tree
4-Exit
>> 4
Terminating...
=====
[SUCCESS] Completed tests....
cbolat@DESKTOP-2J752DH:/mnt/c/Users/pc/Desktop/hw11/hw11$ cat family1.txt
Name:Hasan,Age:45,Mother:NULL,Father:NULL
Name:Gül,Age:47,Mother:NULL,Father:NULL
Name:Ela,Age:42,Mother:Gül,Father:Hasan
Name:Cemal,Age:44,Mother:Gül,Father:Hasan
Name:Gamze,Age:40,Mother:NULL,Father:NULL
Name:Erdem,Age:41,Mother:NULL,Father:NULL
Name:Jose,Age:41,Mother:Ela,Father:Erdem
Name:Emine,Age:41,Mother:Ela,Father:Erdem
Name:Baggage,Age:7,Mother:Gamze,Father:Cemal
Name:Nurdan,Age:2,Mother:Gamze,Father:Cemal
Name:Nuran,Age:1,Mother:Gamze,Father:Cemal

```