```
/Users/bps/PycharmProjects/graph_theory/venv/bin/python /Users/bps/PycharmProjects/
graph_theory/main.py
Welcome to the Graph theory Calculator

Select your choice
1.A matrix Analysis
2.Bf matrix Analysis
3.Qf matrix Analysis
2


2.Bf matrix Analysis

Rows in Bf matrix: 2
Columns in Bf matrix: 7
No of active elements in Bf matrix: 3

 Enter The Incident Matrix ( Bf matrix). First number Voltage independent elements,passive,
then dependent Voltage Source

-1 0 0 -1 1 0 0
1 1 -1 1 0 1 1

 Enter The Z matrix

1 0 0 0
0 2 0 0
0 0 1 0
0 0 0 1
```

Enter The Independent Vg matrix:
10 2 4

Bfp	Z	Bfp_t	Vg
[[-1 1 0 0]	[[1 0 0 0]	[[-1 1]	[[10.]
[1 0 1 1]]	[0 2 0 0]	[1 0]	[2.]
	[0 0 1 0]	[0 1]	[4.]]
	[0 0 0 1]]	[0 1]]	

bfp*z*bfp_t
[[3 -1]
 [-1 3]]

(bfp*z*bfp_t)^-1
[[0.375 0.125]
 [0.125 0.375]]

il

[[2.75]
 [-1.75]]

i

[[-4.5]
 [-1.75]

```
 [ 1.75]
 [-4.5 ]
 [ 2.75]
 [-1.75]
 [-1.75]]

Process finished with exit code 0
```