In [2]:
```
import pandas as pd
df=pd.DataFrame()
emp=pd.Series(['ashwin','hari','jai','nagarjun'])
id=pd.Series(['15','17','29','58'])
age=pd.Series(['22','21','24','27'])
exp=pd.Series(['2','2','3','5'])
a={'emp':emp,'id':id,'age':age,'exp':exp}
b=pd.DataFrame(a)
print(b)
```

```
        emp  id age exp
0    ashwin  15  22   2
1      hari  17  21   2
2       jai  29  24   3
3  nagarjun  58  27   5
```

In [11]:
```
import pandas as pd
import numpy as np
a=np.array([[1,1],[1,-1]])
b=np.array([1,2])
print(a)
print(b)
```

```
[[ 1  1]
 [ 1 -1]]
[1 2]
```

In [12]:
```
c=np.linalg.solve(a,b)
print(c)
```

```
[ 1.5 -0.5]
```

In [15]:
```
import pandas as pd
import numpy as np
a=np.array([[1,8,1],[2,1,-1],[3,6,5]])
b=np.array([1,2,5])
print(a)
print(b)
```

```
[[ 1  8  1]
 [ 2  1 -1]
 [ 3  6  5]]
[1 2 5]
```

In [16]:
```
c=np.linalg.solve(a,b)
print(c)
```

```
[ 1.21428571 -0.07142857  0.35714286]
```

In [ ]: