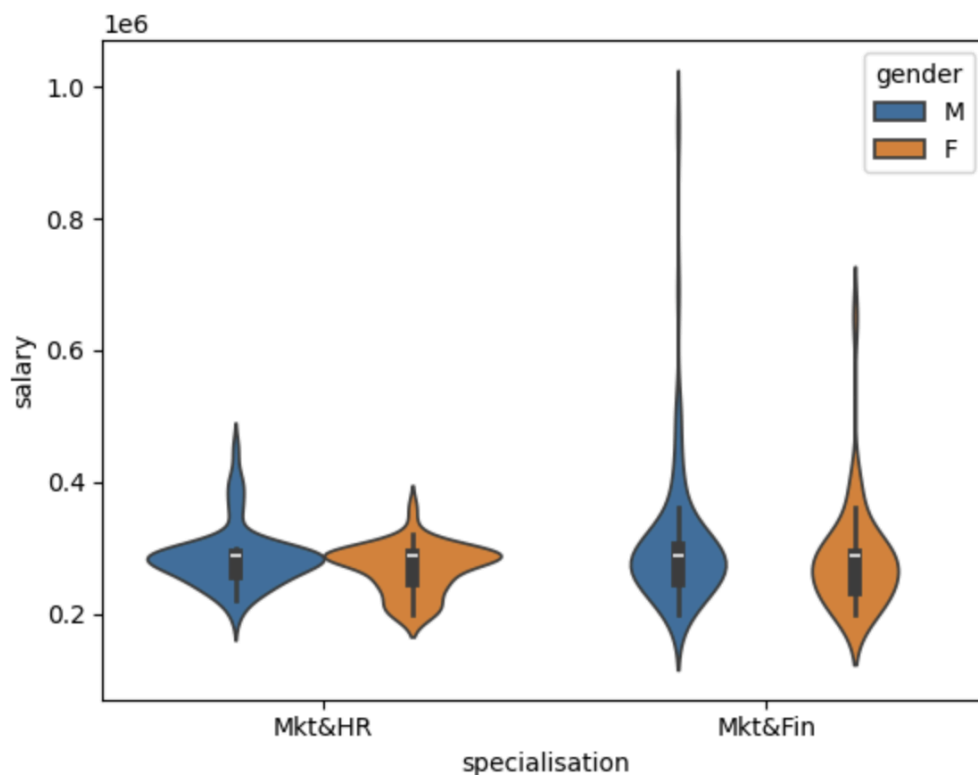# Violin Plot Explanation

Assignment:

```
sns.violinplot(x='specialisation', y= 'salary', data=dataset, hue= 'gender')
plt.show()
```


Data interpretation from the above violin plot:

1. **Marketing & HR:**
    a. Males are getting high salary than women
    b. Few Males are getting high salary than the other Males
    c. Most of the Males are getting salary between 1.75 lakhs and 5 lakhs, whereas most of the Females are getting salary between 1.75 lakhs and 3.75 lakhs
    d. More no of Males are getting average salary than females who are getting average salary
    e. Highest salary got by Men which is 5 lakhs
2. **Marketing & Fin:**

a. Males are getting high salary than women
b. Few Males are getting more than 6 lakhs the other Males
c. Most of the Males are getting salary between 1 lakhs and 5.8 lakhs, whereas most of the Females are getting salary between 1.25 lakhs and 4.25 lakhs
d. Male are getting highest salary which is 5 lakhs
e. More no of Males are getting average salary than females who are getting average salary
f. Highest salary got by Men which is 10.25 lakhs

Overall, In both specialization and gender, males are getting more salary than females and students (both male and female) who took "Marketing & Finance" specialization are getting more salary than students (both male and female) who are part of "marketing & Finance"