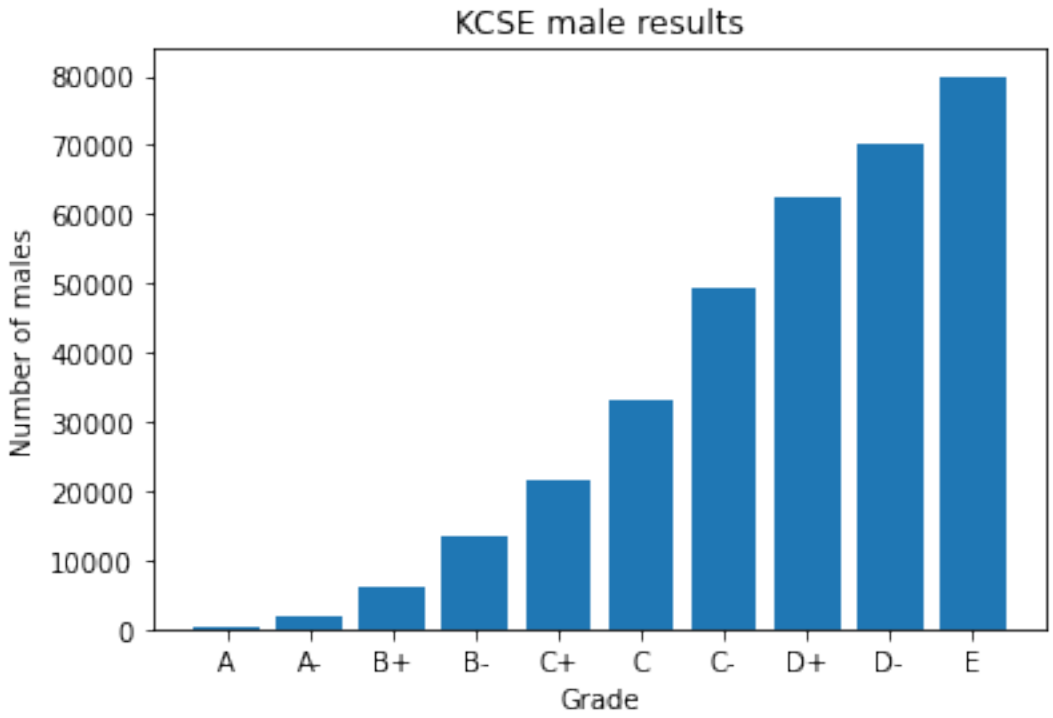
KCSE grades per gender performance

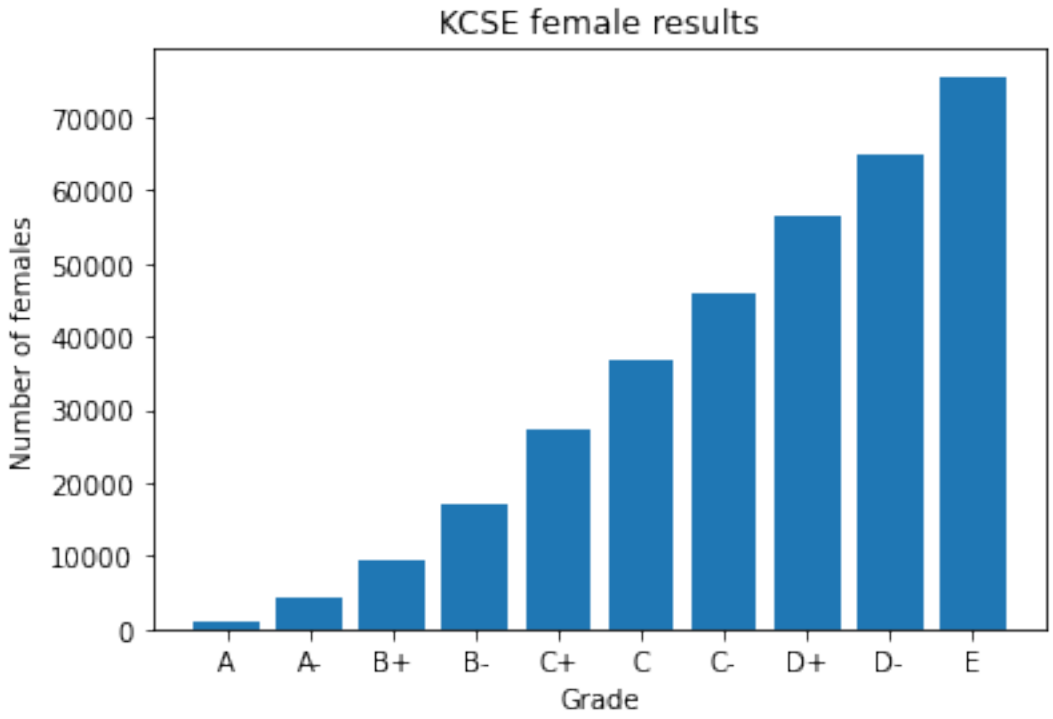
January 20, 2023

[13]:
```
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline
grade=["A","A-","B+","B-","C+","C","C-","D+","D-","E"]
male=[271,1962,6104,13520,21474,33138,49191,62599,70238,79935]
female=[875,4445,9578,17183,27245,36950,45963,56469,64783,75545]
plt.title("KCSE male results")
plt.xlabel("Grade")
plt.ylabel("Number of males")
plt.bar(grade,male);
```



[ ]:
```
#From graph above as the grades dropped form A to E the numbers of males who␣
↪scored the respective grades increased
```

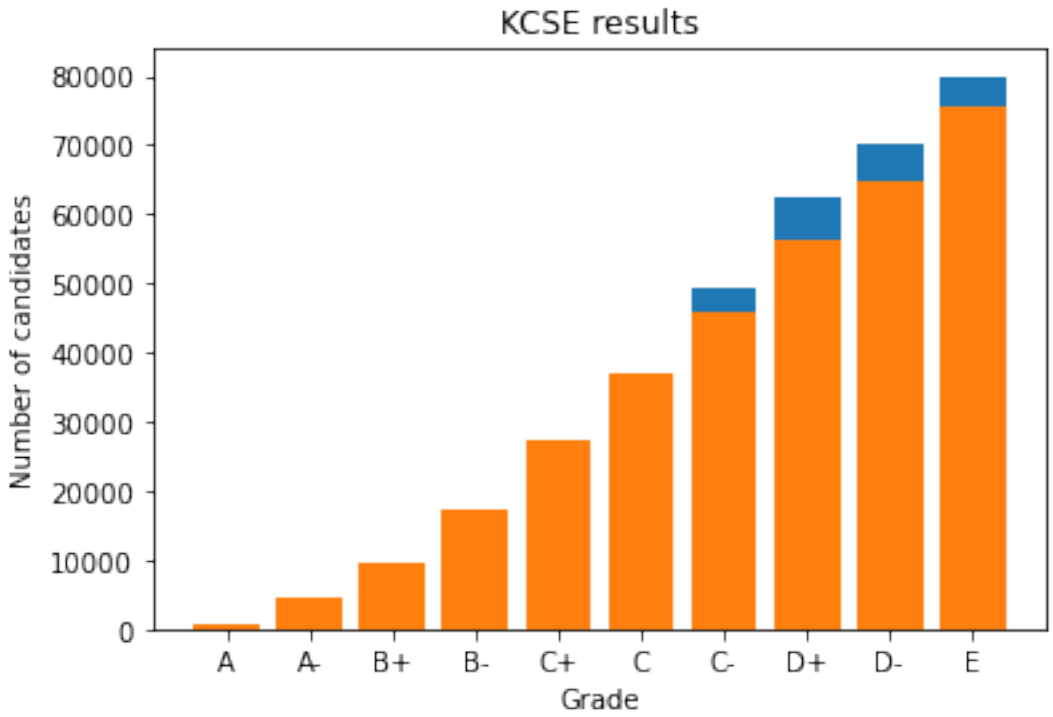
[14]:
```
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline
grade=["A","A-","B+","B-","C+","C","C-","D+","D-","E"]
male=[271,1962,6104,13520,21474,33138,49191,62599,70238,79935]
female=[875,4445,9578,17183,27245,36950,45963,56469,64783,75545]
plt.title("KCSE female results")
plt.xlabel("Grade")
plt.ylabel("Number of females")
plt.bar(grade,female);
```



[ ]:
```
#From graph above as the grades dropped form A to E the numbers of females who␣
↪scored the respective grades increased
```

[19]:
```
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline
grade=["A","A-","B+","B-","C+","C","C-","D+","D-","E"]
male=[271,1962,6104,13520,21474,33138,49191,62599,70238,79935]
female=[875,4445,9578,17183,27245,36950,45963,56469,64783,75545]
plt.title("KCSE results")
plt.xlabel("Grade")
plt.ylabel("Number of candidates")
```

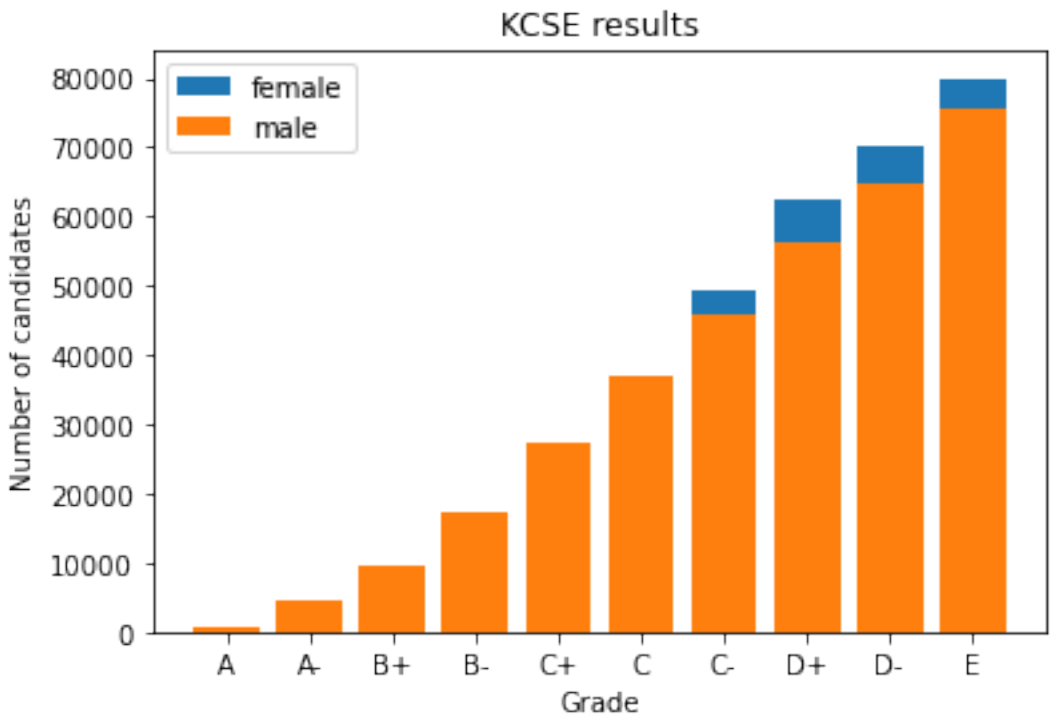
```
plt.bar(grade,male,bottom=None)
plt.bar(grade,female,bottom=None);
```



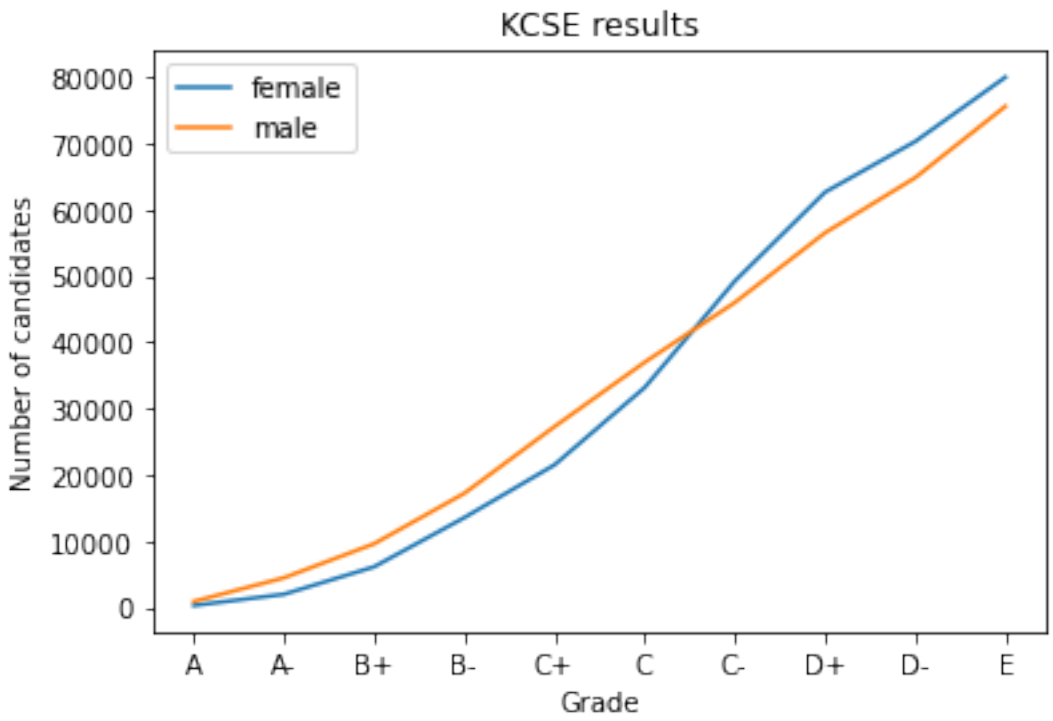
[ ]:

[ ]:
```
#from graph above the males were more between grade A to C but after C the␣
↪females were more
```

[25]:
```
grade=["A","A-","B+","B-","C+","C","C-","D+","D-","E"]
male=[271,1962,6104,13520,21474,33138,49191,62599,70238,79935]
female=[875,4445,9578,17183,27245,36950,45963,56469,64783,75545]
data=[male,female]
plt.title("KCSE results")
plt.xlabel("Grade")
plt.ylabel("Number of candidates")
plt.bar(grade,male,bottom=None)
plt.bar(grade,female,bottom=None)
plt.legend(["female","male"]);
```



[27]:
```
grade=["A","A-","B+","B-","C+","C","C-","D+","D-","E"]
male=[271,1962,6104,13520,21474,33138,49191,62599,70238,79935]
female=[875,4445,9578,17183,27245,36950,45963,56469,64783,75545]
data=[male,female]
plt.title("KCSE results")
plt.xlabel("Grade")
plt.ylabel("Number of candidates")
plt.plot(grade,male)
plt.plot(grade,female)
plt.legend(["female","male"]);
```


KCSE results
female
male
Number of candidates
80000
70000
60000
50000
40000
30000
20000
10000
0
A
A-
B+
B-
C+
C
C-
D+
D-
E
Grade

[ ]: