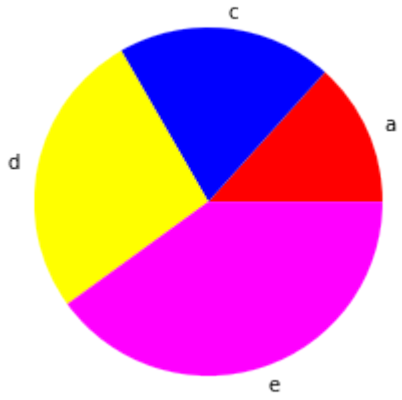
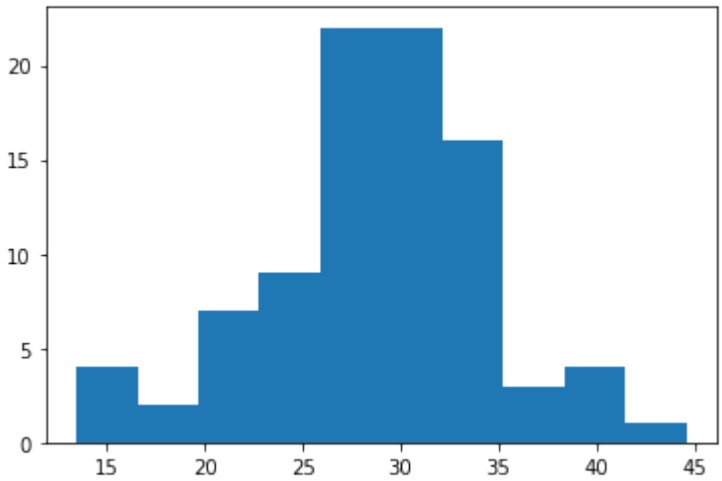
In [1]:

```
import numpy as np
import matplotlib.pyplot as plt
#x=np.array([2,5,7,3])
y=np.array([10,15,20,30])
cp=['red','blue','yellow','magenta']
name=['a','c','d','e']
plt.pie(y,labels=name,colors=cp)
plt.show()
```




In [2]:

```
a=np.random.normal(30,6,90)
plt.hist(a)
plt.show()
```




In [7]:

```
b=open('x.txt','w')
b.write("Thanks for opening this. Have a good day:))")
b.close()
b=open('x.txt')
print(b.read())
b.close()
```

```
Thanks for opening this. Have a good day:))
```

In [13]:
```
b=open('x.txt','a')
b.write("\nByee")
b.close()
b=open('x.txt')
print(b.read())
```

```
Thanks for opening this. Have a good day:))Byee/nByee
Byee
```

In [16]:
```
import json
z='{"Name":"Brownie","Breed":"Golden retriever","Age":2}'
w=json.loads(z)
print(w)
```

```
{'Name': 'Brownie', 'Breed': 'Golden retriever', 'Age': 2}
```

In [17]:
```
f=open('d:file.txt','w')
f.write("Hello!")
b.close()
f=open('d:file.txt')
f.close()
```

In [ ]:
```
1
```