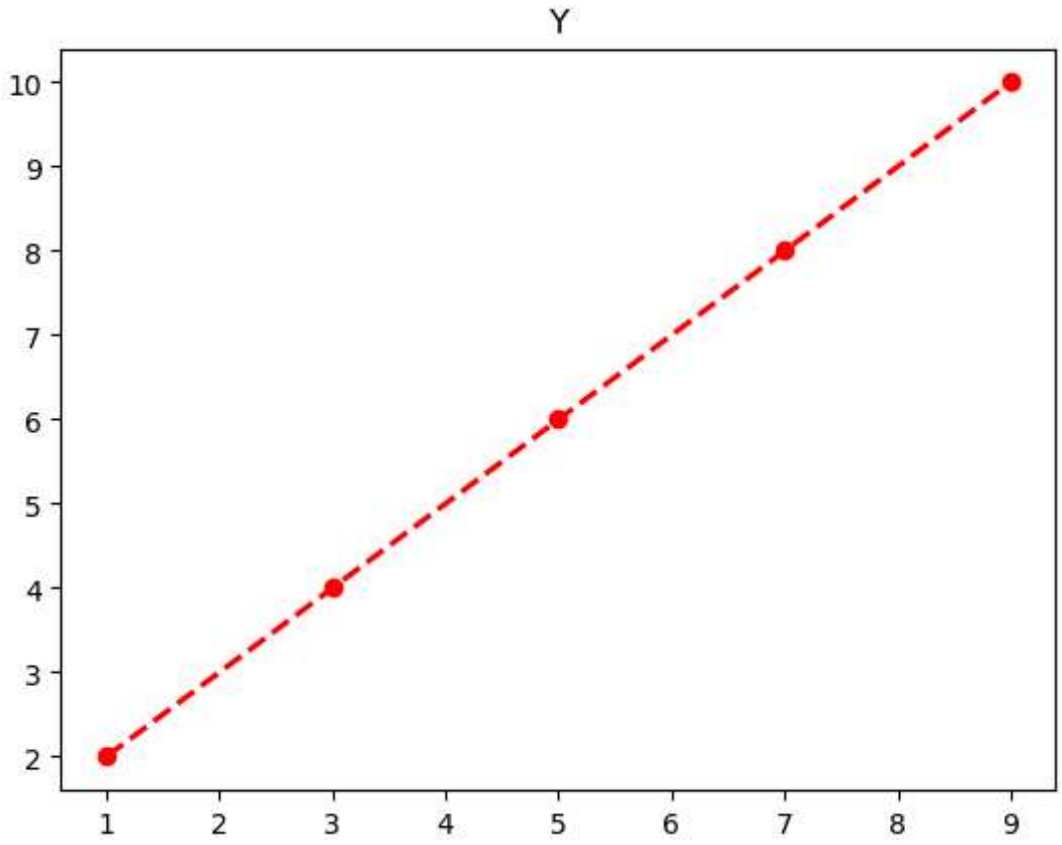
In [1]:
```
pip install matplotlib
```

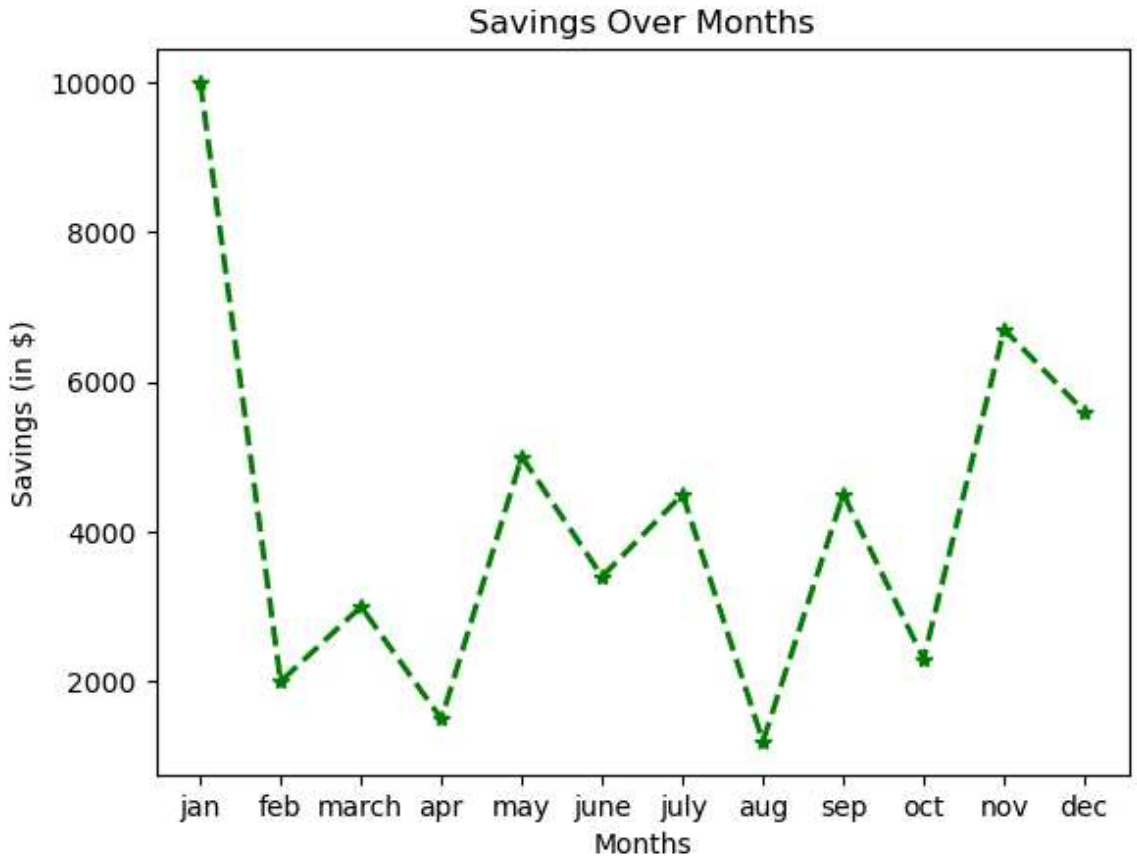
```
Requirement already satisfied: matplotlib in c:\users\cvr\anaconda3\lib\si
te-packages (3.7.2)
Requirement already satisfied: contourpy>=1.0.1 in c:\users\cvr\anaconda3
\lib\site-packages (from matplotlib) (1.0.5)
Requirement already satisfied: cycler>=0.10 in c:\users\cvr\anaconda3\lib
\site-packages (from matplotlib) (0.11.0)
Requirement already satisfied: fonttools>=4.22.0 in c:\users\cvr\anaconda3
\lib\site-packages (from matplotlib) (4.25.0)
Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\cvr\anaconda3
\lib\site-packages (from matplotlib) (1.4.4)
Requirement already satisfied: numpy>=1.20 in c:\users\cvr\anaconda3\lib\s
ite-packages (from matplotlib) (1.24.3)
Requirement already satisfied: packaging>=20.0 in c:\users\cvr\anaconda3\l
ib\site-packages (from matplotlib) (23.1)
Requirement already satisfied: pillow>=6.2.0 in c:\users\cvr\anaconda3\lib
\site-packages (from matplotlib) (9.4.0)
Requirement already satisfied: pyparsing<3.1,>=2.3.1 in c:\users\cvr\anaco
nda3\lib\site-packages (from matplotlib) (3.0.9)
Requirement already satisfied: python-dateutil>=2.7 in c:\users\cvr\anacon
da3\lib\site-packages (from matplotlib) (2.8.2)
Requirement already satisfied: six>=1.5 in c:\users\cvr\anaconda3\lib\site
-packages (from python-dateutil>=2.7->matplotlib) (1.16.0)
Note: you may need to restart the kernel to use updated packages.
```

In [2]:
```
import matplotlib.pyplot as pt
```

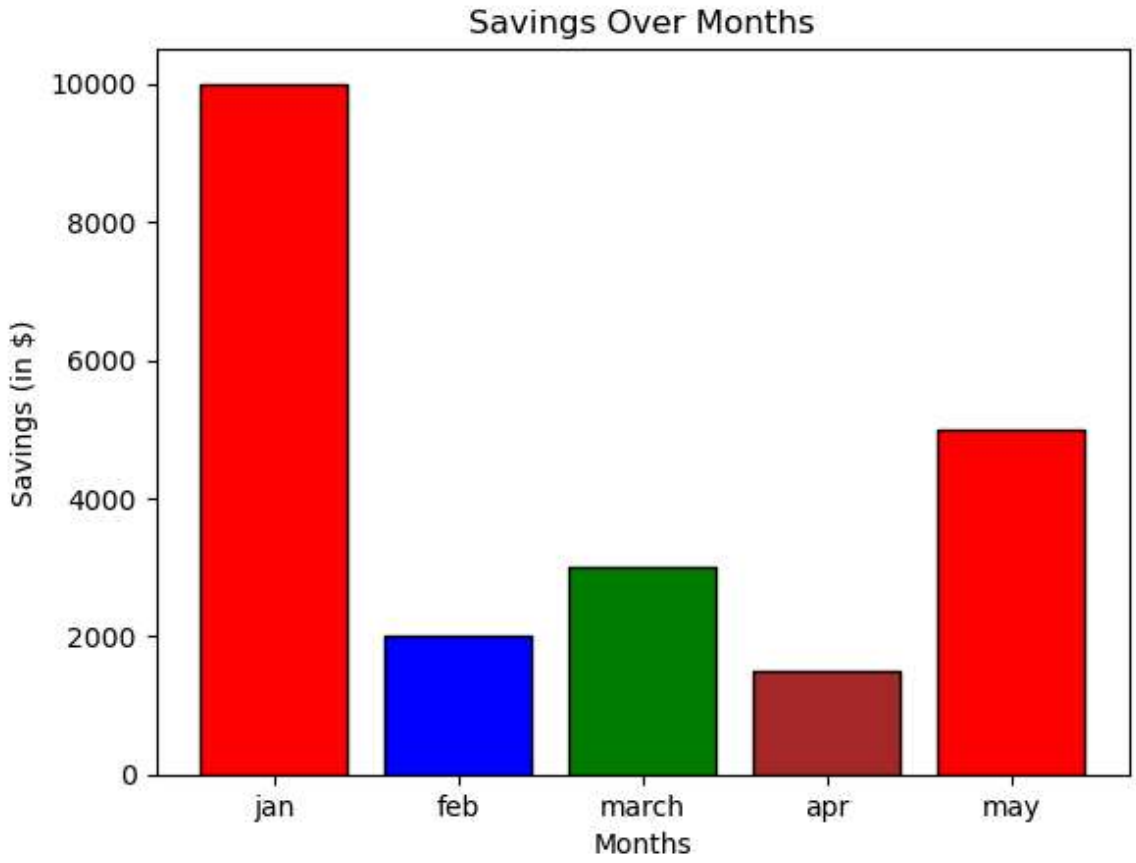
In [9]:
```
import matplotlib.pyplot as plt

# Define x and y as lists (or tuples)
x = [1, 3, 5, 7, 9]
y = [2, 4, 6, 8, 10]

# Plot the data

plt.plot(x,y,color='red',linewidth=2,linestyle='dashed',marker='o')
plt.title('X')
plt.title('Y')
plt.show()
# Display the plot
```



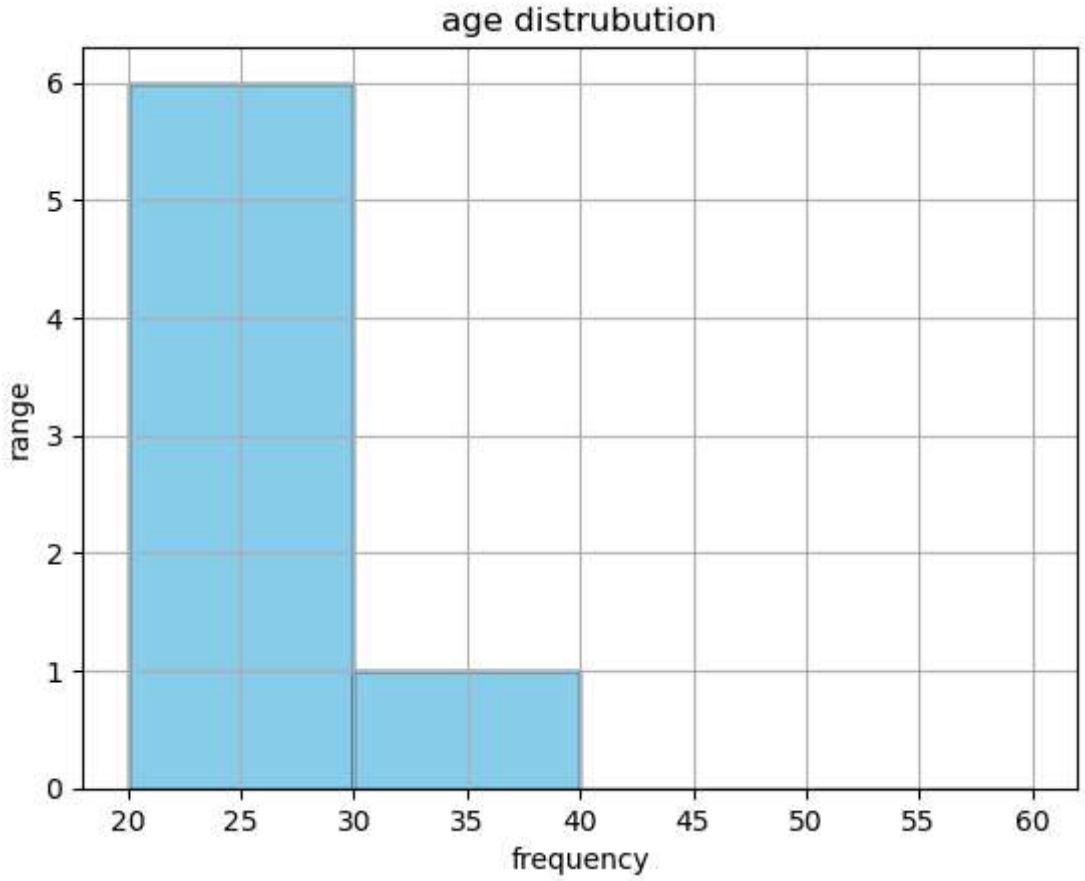
In [14]:
```
import matplotlib.pyplot as plt

# Data
x = ['jan', 'feb', 'march', 'apr', 'may', 'june', 'july','aug', 'sep', 'oct'
y = [10000, 2000, 3000, 1500, 5000, 3400, 4500, 1200, 4500, 2300, 6700, 5600

# Plot
plt.plot(x, y, color='green', linestyle='dashed', marker='*', linewidth=2)

# Titles and labels
plt.title('Savings Over Months')  # Single title
plt.xlabel('Months')
plt.ylabel('Savings (in $)')

# Display the plot
plt.show()
```



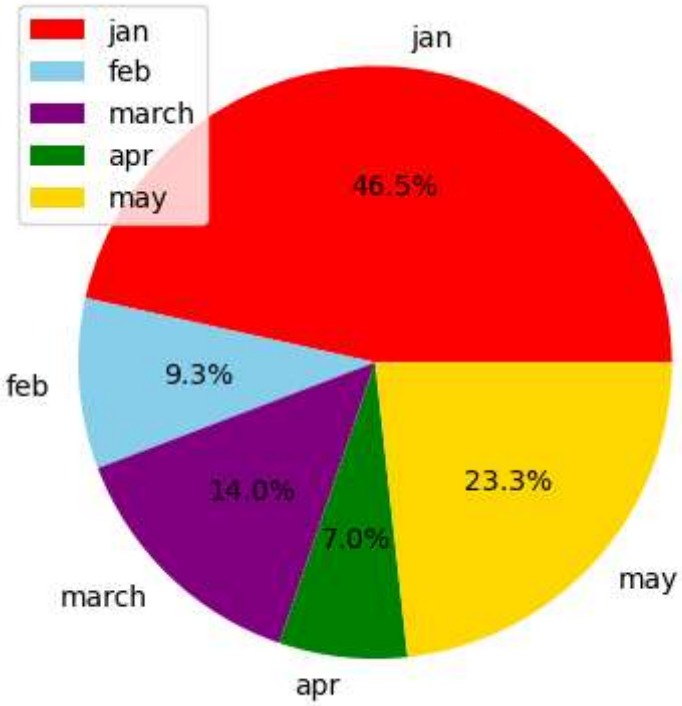
In [21]:
```
import matplotlib.pyplot as plt

# Data
x = ['jan', 'feb', 'march', 'apr', 'may']
y = [10000, 2000, 3000, 1500, 5000]

# Plot
plt.bar(x,y,color=['red','blue','green','brown'],edgecolor='black')

# Titles and labels
plt.title('Savings Over Months')  # Single title
plt.xlabel('Months')
plt.ylabel('Savings (in $)')

# Display the plot
plt.show()
```



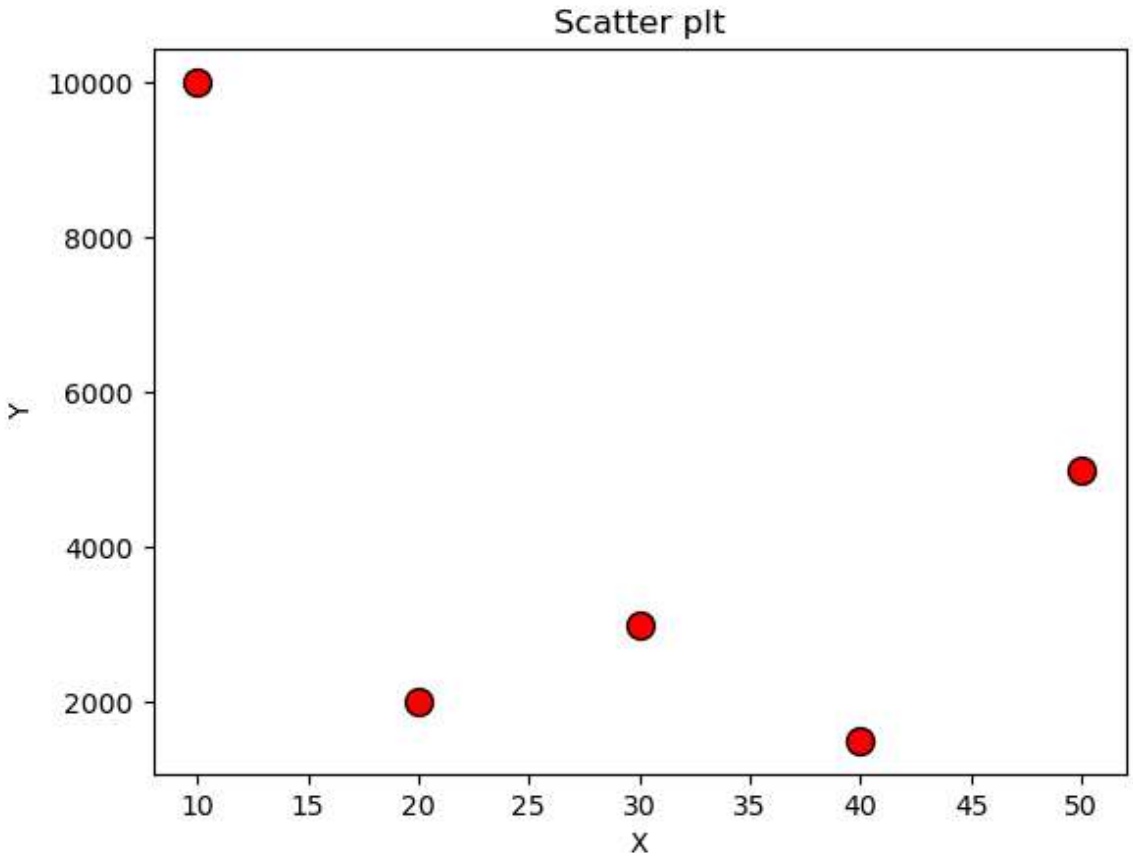
In [25]:
```
ages=[20,22,23,25,27,28,30]
b=[20,30,40,50,60]
plt.hist(ages,bins=b,color='skyblue',edgecolor='black')
plt.title('age distrubution')
plt.xlabel('frequency')
plt.ylabel('range')
plt.grid(True)
plt.show()
```



In [31]:
```
import matplotlib.pyplot as plt

# Data
labels = ['jan', 'feb', 'march', 'apr', 'may']
sizes = [10000, 2000, 3000, 1500, 5000]
colors = ['red', 'skyblue', 'purple', 'green', 'gold']

# Plot
plt.pie(sizes, labels=labels, colors=colors, autopct='%1.1f%%')
plt.legend()
# Display the plot
plt.show()
```



In [32]:
```
import matplotlib.pyplot as plt

# Data
x = [10,20,30,40,50]
y = [10000, 2000, 3000, 1500, 5000]
plt.scatter(x,y,color='red',s=100,edgecolor='black')
plt.title('Scatter plt')
plt.xlabel('X')
plt.ylabel('Y')
plt.show()
```



In [ ]: