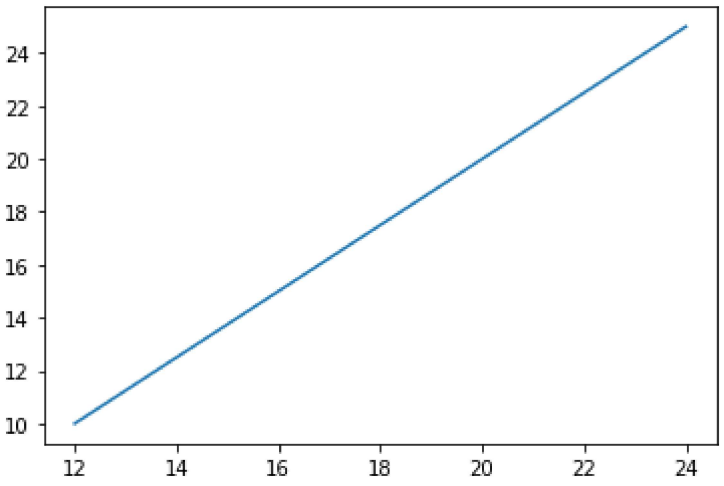
In [1]:
```
from matplotlib import pyplot as p
import numpy as np
```

In [2]:
```
x=np.array([12,24])
y=np.array([10,25])
```

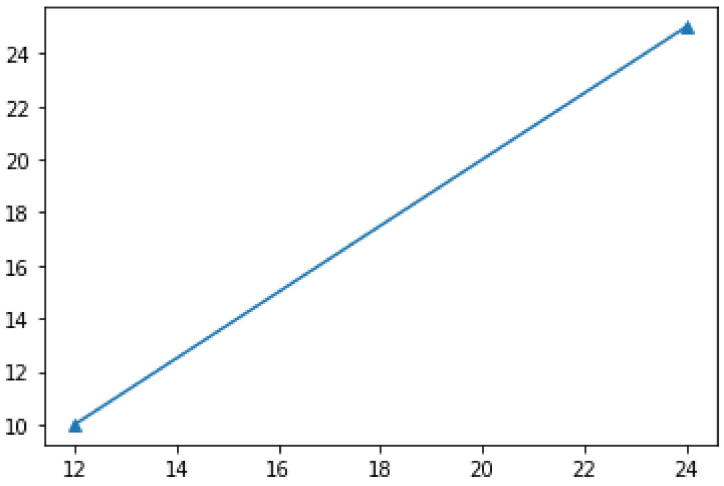
In [3]:
```
p.plot(x,y)
```

Out[3]:
```
[<matplotlib.lines.Line2D at 0x19f8b09e3a0>]
```



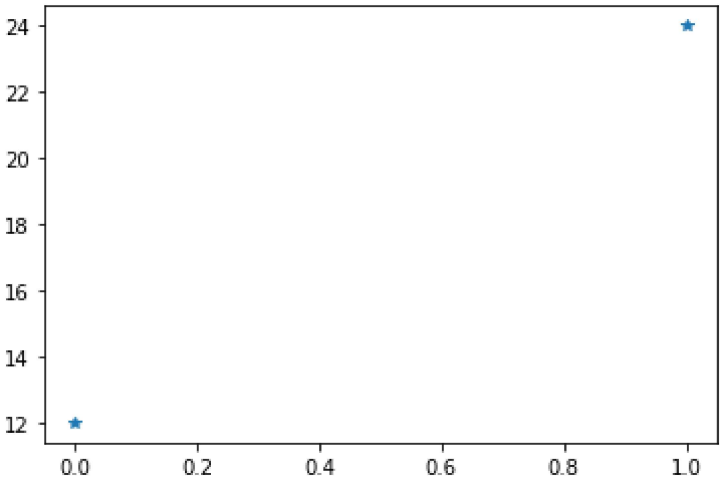
In [4]:
```
p.plot(x,y,marker="^")
```

Out[4]:
```
[<matplotlib.lines.Line2D at 0x19f8b83d640>]
```



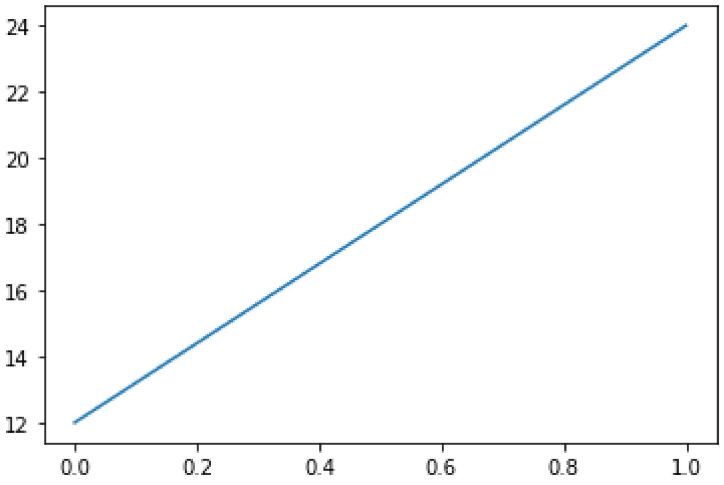
In [6]:
```
p.plot(x,"*")
```

Out[6]:
```
[<matplotlib.lines.Line2D at 0x19f8b9582e0>]
```



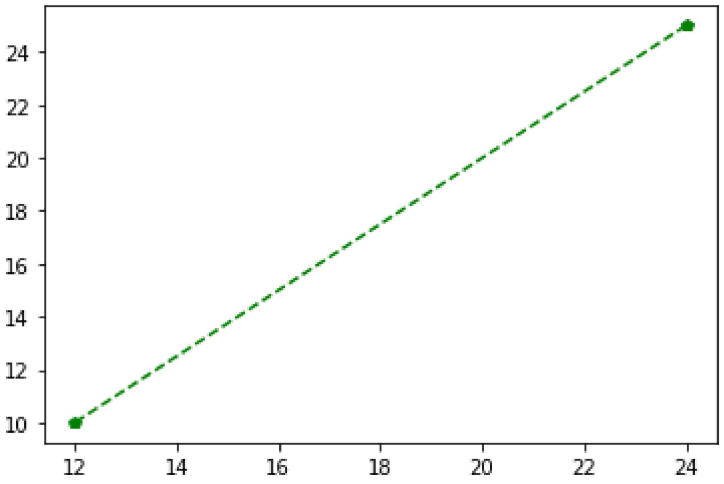
In [7]:
```
p.plot(x)
```

Out[7]:
```
[<matplotlib.lines.Line2D at 0x19f8c413c70>]
```



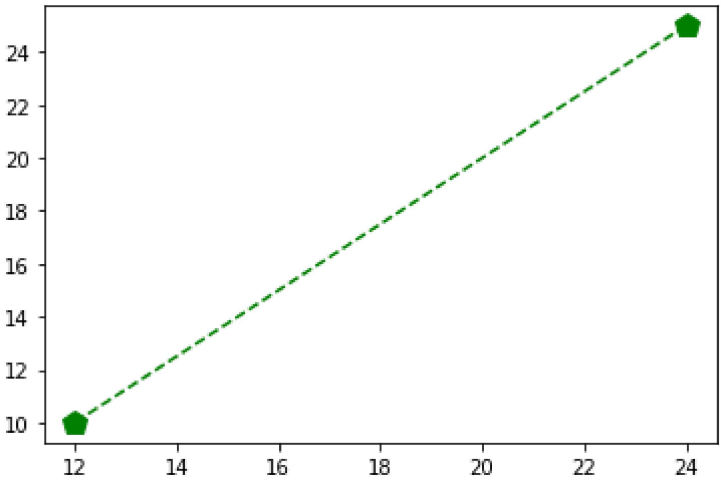
In [8]:
```
p.plot(x,y,"p--g")
```

Out[8]:
```
[<matplotlib.lines.Line2D at 0x19f8c47a6d0>]
```



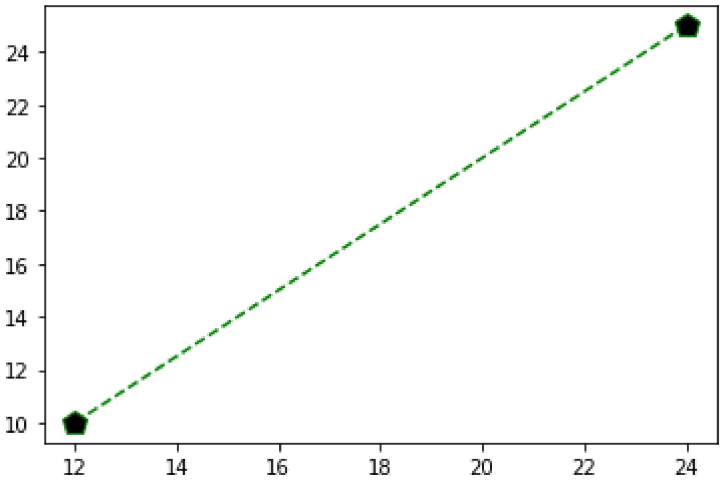
In [12]:
```
p.plot(x,y,"p--g",ms=12)
```

Out[12]:
```
[<matplotlib.lines.Line2D at 0x19f8d5f0430>]
```



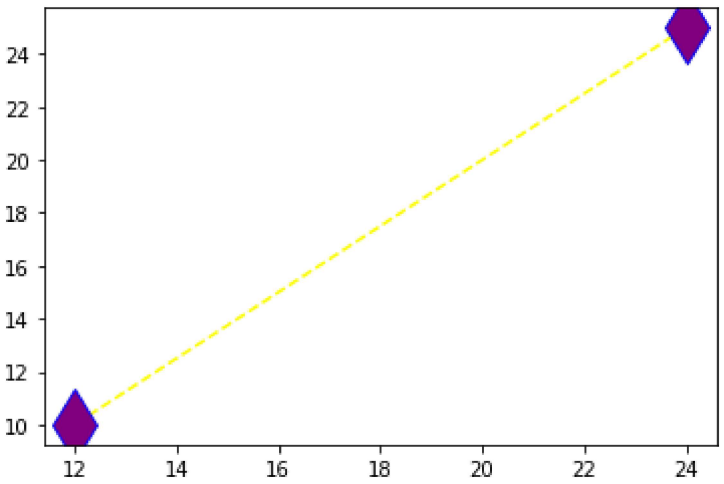
In [14]:
```
p.plot(x,y,"p--g",ms=12,mfc="k")
```

Out[14]:
```
[<matplotlib.lines.Line2D at 0x19f913347f0>]
```



In [20]:
```
p.plot(x,y,linestyle="dashed",c="yellow",marker="d",mfc="purple",ms=25,mec="blue")
```

Out[20]:
```
[<matplotlib.lines.Line2D at 0x19f9436c7c0>]
```



In [21]:
```
age=[1,2,3,4,5,6]
m=min(age)
m
```

Out[21]: 1

In [25]:
```
def binning (data):
    maximum_value=max(data)
    minimum_value=min(data)
    print("minimum Age=",minimum_value)
    print("maximum Age=",maximum_value)
    child=[]
    teen=[]
    adult=[]
    old=[]
    for i in data:
        if i<=12:
            child.append(i)
        elif i>12 and i<20:
            teen.append(i)
        elif i>=20 and i<45:
            adult.append(i)
        elif i>45:
            old.append(i)
    print("bin of children=",child)
    print("bin of teen=",teen)
    print("Bin Of adult=",adult)
    print("Bin Of old=",old)
age=[10,23,2,3,17,20]
binning(age)
```

```
minimum Age= 2
maximum Age= 23
bin of children= [10, 2, 3]
bin of teen= [17]
Bin Of adult= [23, 20]
Bin Of old= []
```

In [ ]:

In [ ]: