In [1]:

```
from matplotlib import pyplot as plt
```

In [3]:

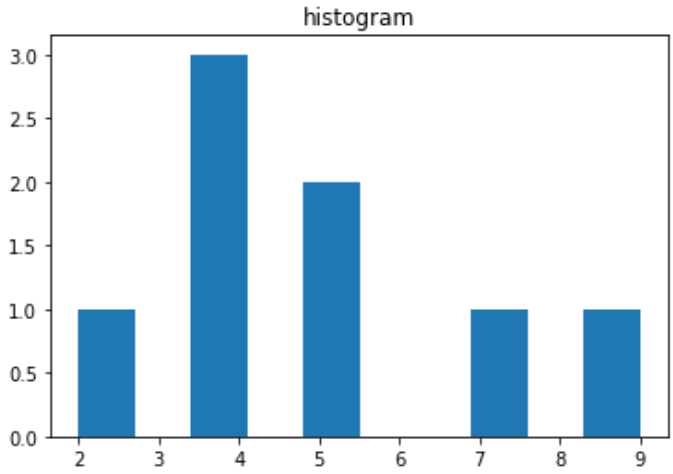
```
import numpy as np
```

In [4]:

```
P=[2,4,4,4,5,5,7,9]
```

In [5]:

```
plt.hist(P)
plt.title("histogram")
plt.show()
```



In [6]:

```
import numpy as np
```

In [7]:

```
import matplotlib.pyplot as plt
```

In [8]:

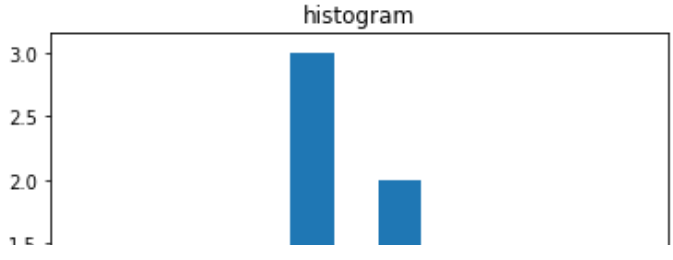
```
from scipy.stats import norm
```

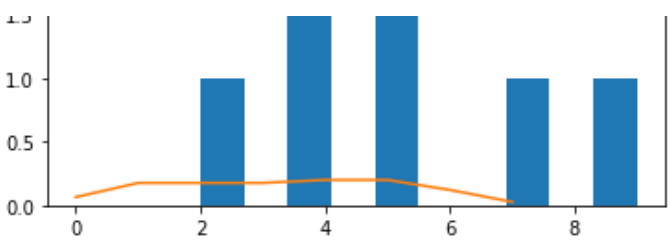
In [9]:

```
P=[2,4,4,4,5,5,7,9]
```

In [10]:

```
plt.hist(P)
plt.title("histogram")
std = np.std(P)
mean = np.mean(P)
plt.plot(norm.pdf(P,mean,std))
plt.show()
```



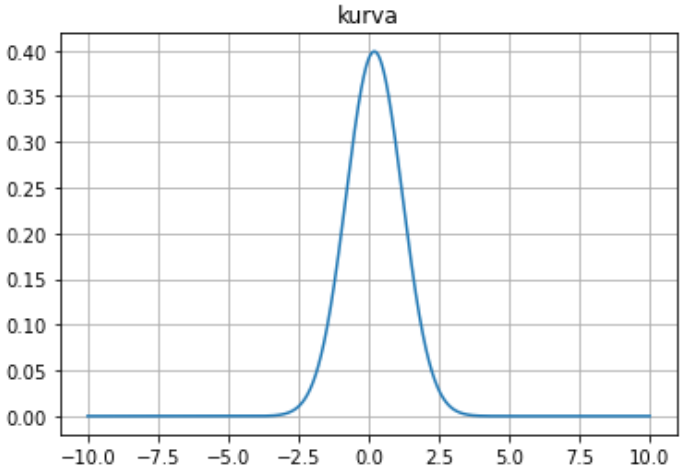


In [17]:

```
x_axis = np.arange(-10,10,0.001)
```

In [19]:

```
plt.plot(x_axis,norm.pdf(x_axis, 0.2))
plt.grid()
plt.title("kurva")
plt.show()
```



In [39]:

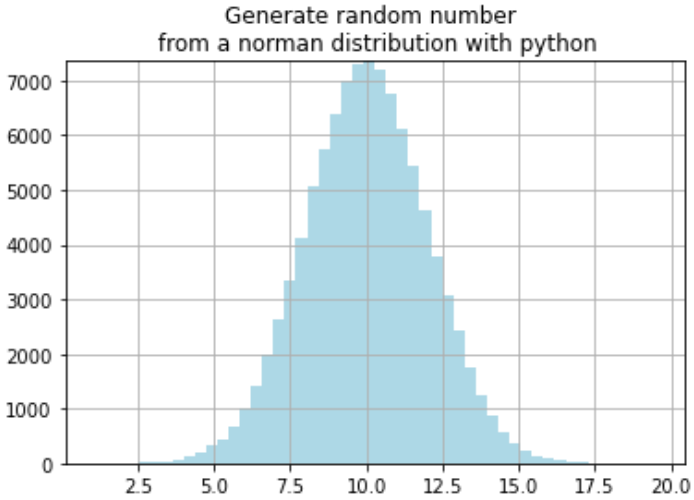
```
mu=10.0
sigma=2.0
```

In [29]:

```
data = np.random.randn(100000)*sigma+mu
```

In [36]:

```
hx, hy, _ =plt.hist(data, bins=50, color="lightblue")
plt.ylim(0.0,max(hx)+0.05)
plt.title("Generate random number \n from a norman distribution with python")
plt.grid()
plt.show()
```

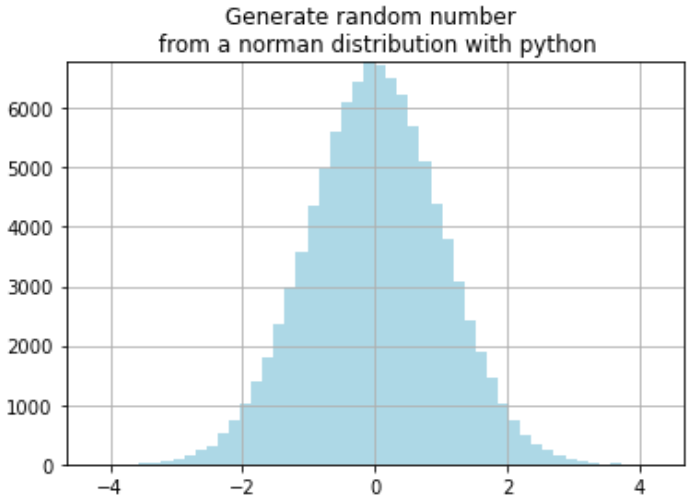


In [37]:

```
data = np.random.randn(100000)
```

In [38]:

```
hx, hy, _ =plt.hist(data, bins=50, color="lightblue")
plt.ylim(0.0,max(hx)+0.05)
plt.title("Generate random number \n from a norman distribution with python")
plt.grid()
plt.show()
```



In [ ]:

```

```