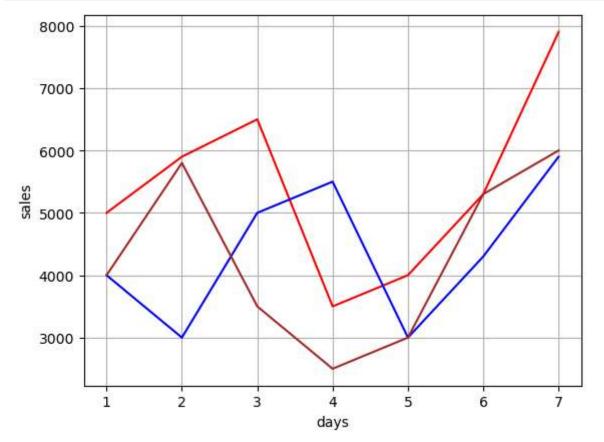
```
In [3]:
          1 import numpy as np
          2 import pandas as pd
          3 import matplotlib.pyplot as plt
          4 import seaborn as sns
          6
            data_set = {
          7
                 'days':[1,2,3,4,5,6,7],
          8
                 'week1':[5000,5900,6500,3500,4000,5300,7900],
          9
                 'week2':[4000,3000,5000,5500,3000,4300,5900],
         10
                 'week3':[4000,5800,3500,2500,3000,5300,6000]
         11
            df=pd.DataFrame(data_set)
         12
         13 df.head()
```

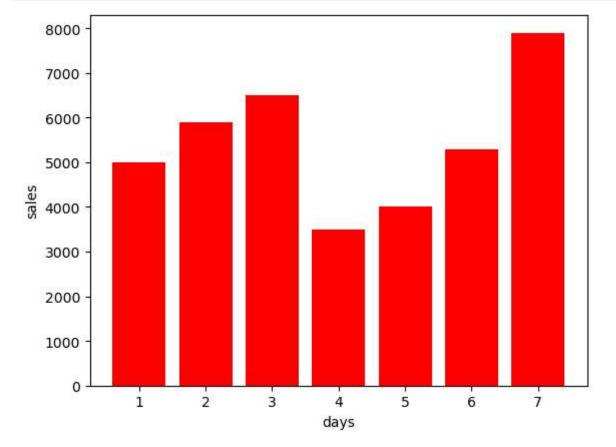
## Out[3]:

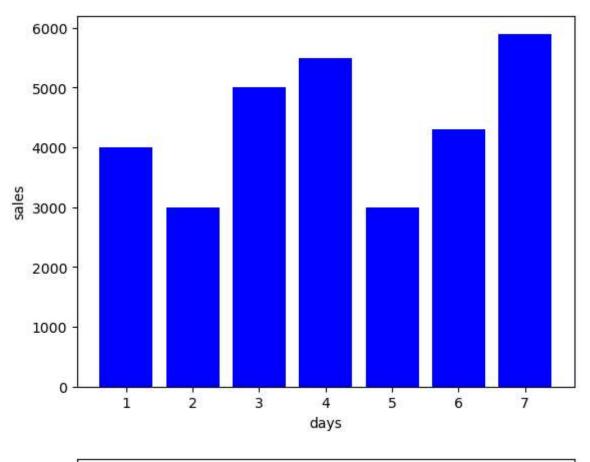
	days	week1	week2	week3
0	1	5000	4000	4000
1	2	5900	3000	5800
2	3	6500	5000	3500
3	4	3500	5500	2500
4	5	4000	3000	3000

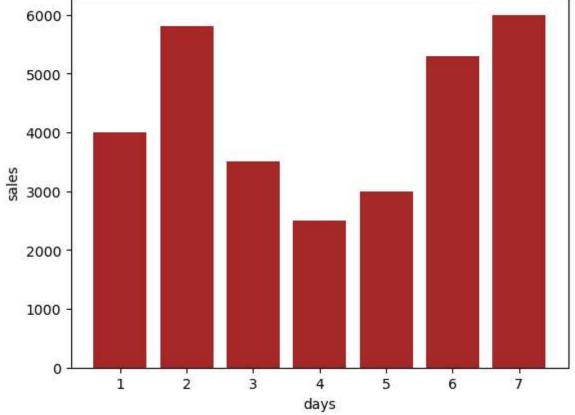
```
In [24]:
               import matplotlib.pyplot as plt
               colors= {
            2
            3
                    'week1':'red',
                    'week2':'blue',
            4
                    'week3':'brown'
            5
            6
            7
               for week in ['week1','week2','week3']:
                   plt.plot(df['days'],df[week],color=colors[week])
            8
               plt.xlabel("days")
plt.ylabel("sales")
            9
           10
           11 plt.grid(True)
           12
               plt.show()
           13
```



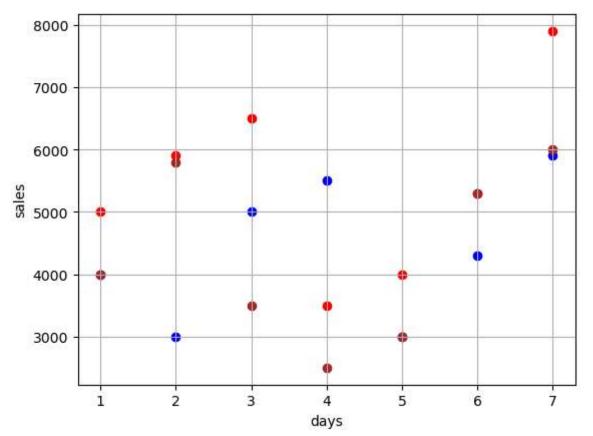
```
In [15]:
              import matplotlib.pyplot as plt
              colors= {
           2
           3
                  'week1':'red',
                  'week2':'blue',
           4
                  'week3':'brown'
           5
           6
              }
           7
              for week in ['week1','week2','week3']:
                  plt.bar(df['days'],df[week],color=colors[week])
           8
                  plt.xlabel("days")
           9
                  plt.ylabel("sales")
          10
                  plt.show()
          11
          12
```



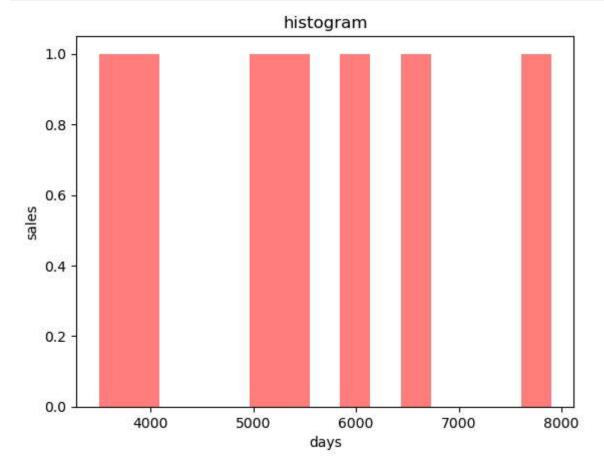


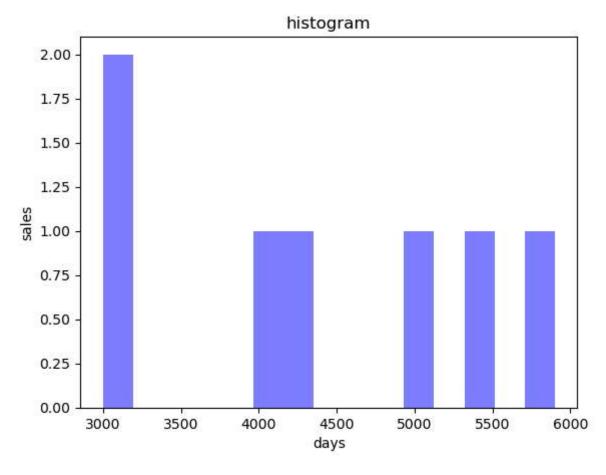


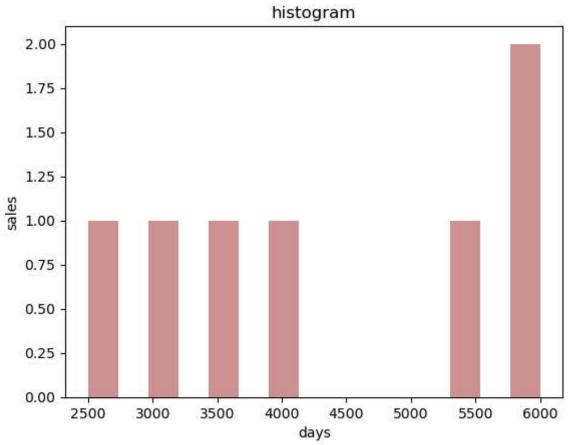
```
In [25]:
              import matplotlib.pyplot as plt
              colors= {
           2
           3
                  'week1':'red',
           4
                  'week2':'blue',
                  'week3':'brown'
           5
           6
           7
              for week in ['week1','week2','week3']:
                  plt.scatter(df['days'],df[week],color=colors[week])
           8
              plt.xlabel("days")
           9
              plt.ylabel("sales")
          10
          11 plt.grid(True)
              plt.show()
          12
          13
```



```
In [23]:
              import matplotlib.pyplot as plt
              colors= {
           2
           3
                   'week1':'red',
           4
                  'week2':'blue',
                  'week3':'brown'
           5
           6
              }
           7
              for week in ['week1','week2','week3']:
           8
                  plt.hist(df[week],alpha = 0.5,bins=15,color=colors[week])
           9
                  plt.xlabel("days")
                  plt.ylabel("sales")
          10
                  plt.title("histogram")
          11
          12
                  plt.show()
          13
```

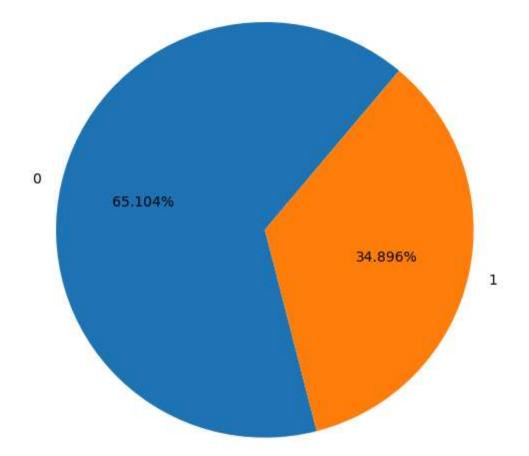


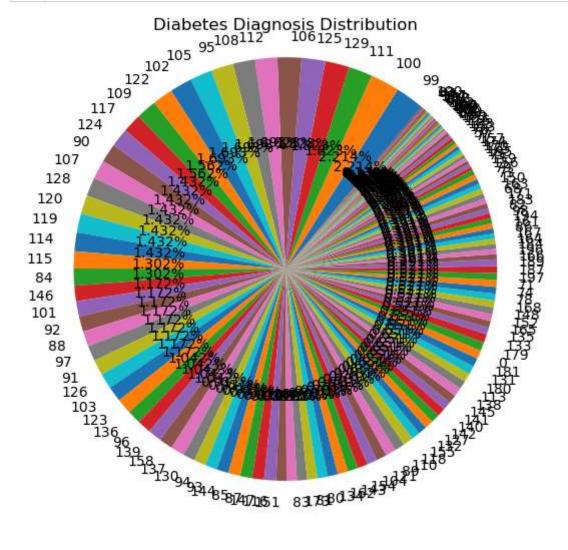


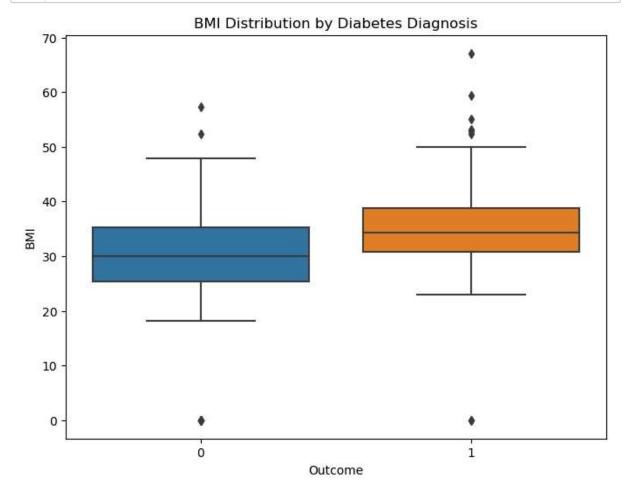


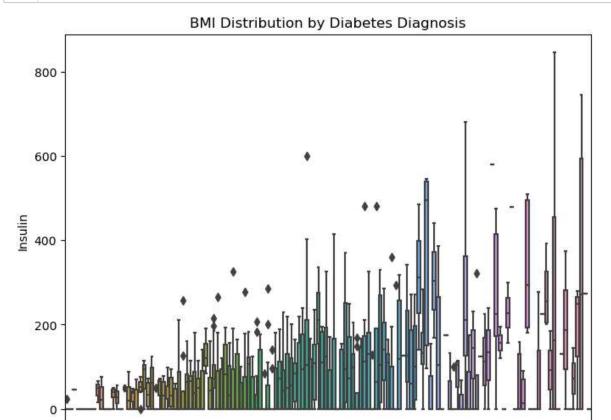
Out[31]:		Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	ВМІ	DiabetesPedigreeFunction
	0	6	148	72	35	0	33.6	0.627
	1	1	85	66	29	0	26.6	0.351
	2	8	183	64	0	0	23.3	0.672
	3	1	89	66	23	94	28.1	0.167
	4	0	137	40	35	168	43.1	2.288
	ē .							

## **Diabetes Diagnosis Distribution**



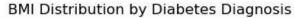


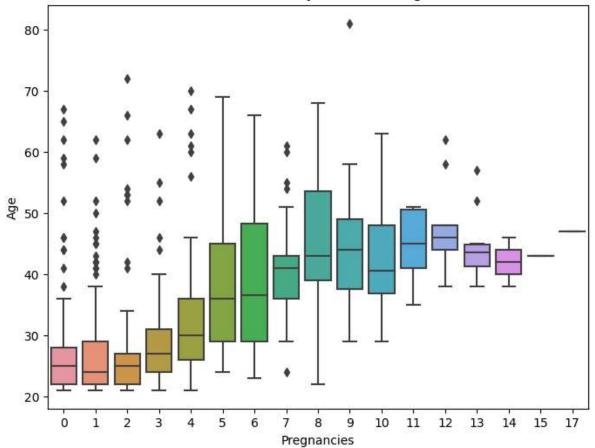


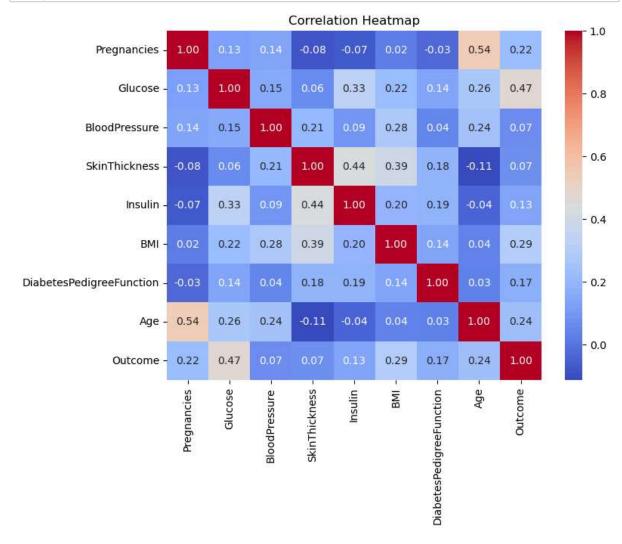


<del>Ожимичения из принципации и </del>

localhost:8888/notebooks/DVA LAB.ipynb







In [ ]: | 1 |