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Practica 02 Simulacion

192985

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Carga de los datos de los jugadores de FIFA

```
In [1]:
           import pandas as pd
           import numpy as np
           import matplotlib.pyplot as plt
           import matplotlib.patches as mpatches
In [2]:
           df = pd.read csv('fifa datos1.csv')
           df
Out[2]:
                  Columna
                                            Name Age
                                ID
                                                                                             Photo Nationality
                                                          https://cdn.sofifa.org/players/4/19/158023.png
              0
                            158023
                                           L. Messi
                                                                                                       Argentina I
                                          Cristiano
              1
                             20801
                                                                                                        Portugal I
                                                      33
                                                           https://cdn.sofifa.org/players/4/19/20801.png
                                          Ronaldo
              2
                            190871
                                         Neymar Jr
                                                          https://cdn.sofifa.org/players/4/19/190871.png
                                                                                                           Brazil I
              3
                            193080
                                           De Gea
                                                          https://cdn.sofifa.org/players/4/19/193080.png
                                                                                                           Spain 1
```

18202 18202 238813 J. Lundstram 19 https://cdn.sofifa.org/players/4/19/238813.png England I

https://cdn.sofifa.org/players/4/19/192985.png

18203 243165 N. Christoffersson 19 https://cdn.sofifa.org/players/4/19/243165.png Sweden I

18204 18204 241638 B. Worman 16 https://cdn.sofifa.org/players/4/19/241638.png England I

18205 18205 246268 D. Walker-Rice 17 https://cdn.sofifa.org/players/4/19/246268.png England I

18206 18206 246269 G. Nugent 16 https://cdn.sofifa.org/players/4/19/246269.png England I

18207 rows × 89 columns

Con los datos de los jugadores de FIFA, organizarlos de acuerdo al peso (debajo de las 125 lbs, 125 - 150 lbs, 150 - 175 lbs, 175 lbs en adelante) por medio de un gráfico de pie.

In [3]: p1 = 0 p2 = 0

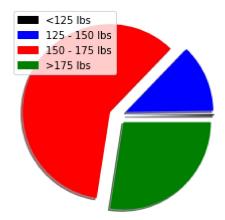
Belgium

```
p3 = 0
p4 = 0
separador = "lbs"
for x in df['Weight']:
    separado = str(x).split(separador)
    x1 = float(separado[0])
    if x1 < 125:
        p1+=1
    elif x1 < 150:
        p2+=1
    elif x1 < 175:
        p3+=1
    else:
        p4+=1
pesos = [p1, p2, p3, p4]
pesos
```

Out[3]: [41, 2290, 10876, 5000]

```
In [4]:
    colors = ['black', 'blue', 'red', 'green']
    labels = ['<125 lbs', '125 - 150 lbs', '150 - 175 lbs', '>175 lbs']
    myexplode = [0.1, 0.1, 0.1, 0.1]

    plt.pie(pesos, colors=colors, explode = myexplode, shadow = True)
    lg1 = mpatches.Patch(color='black', label='<125 lbs')
    lg2 = mpatches.Patch(color='blue', label='125 - 150 lbs')
    lg3 = mpatches.Patch(color='red', label='150 - 175 lbs')
    lg4 = mpatches.Patch(color='green', label='>175 lbs')
    plt.legend(handles=[lg1, lg2, lg3, lg4])
    plt.show()
```



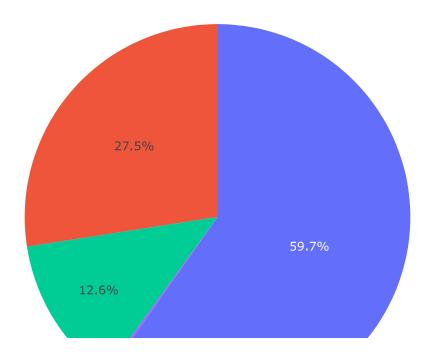
Generar un gráfico de barras de acuerdo al overall de los jugadores en base a los siguientes segmentos:

- 40
- 50
- 60
- 70
- , 0
- 80
- 90
- 100

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Uso de la libreria Plotly

```
In [5]: import plotly.graph_objects as go
In [6]: import plotly.express as px
import numpy
    random_x = [41, 2290, 10876, 5000]
    names = ['<125 lbs', '125 - 150 lbs', '150 - 175 lbs', '>175 lbs']
    fig = px.pie(values=random_x, names=names)
    fig.show()
```

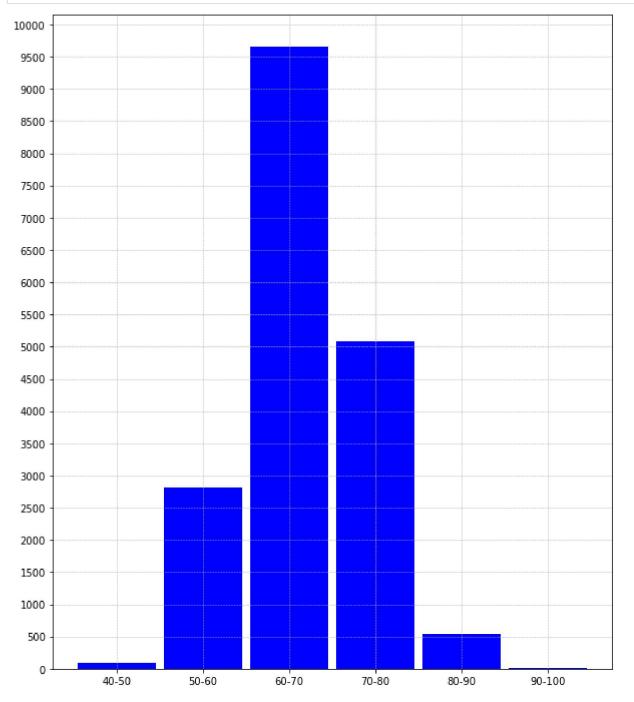


```
In [7]:
    x1 = 0; x2 = 0; x3= 0; x4= 0; x5= 0; x6 = 0
    for x in df['Overall']:
        if x < 50:
            x1+=1
        elif x < 60:
            x2 +=1
        elif x < 70:
            x3+=1
        elif x < 80:</pre>
```

```
x4+=1
elif x < 90:
    x5+=1
else:
    x6+=1
overall = [x1, x2, x3, x4, x5, x6]
overall</pre>
```

Out[7]: [89, 2815, 9665, 5083, 541, 14]

```
In [8]:
    plt.figure(figsize=(10,12))
    plt.bar(['40-50', '50-60', '60-70', '70-80', '80-90', '90-100'], overall, color='blue',
    plt.yticks(np.arange(0, 10001, 500))
    plt.grid(linestyle='--', linewidth=0.5)
    plt.show()
```



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Investigacion

Investigar alguna herramienta o software que permita generar resportes con Python utilizando CodeLabs

La herramienta que nos permitira generar reportes con Python se denomina reporlab