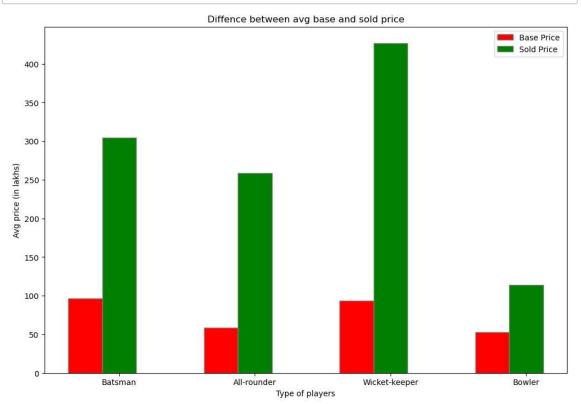
Some characters could not be decoded, and were replaced with REPLACEMENT CHARACTER.

8

```
In [3]: | table=tables[5]
            data=[]
            header row = [header.text.strip() for header in table.find all("th")]
            del header row[1:3]
            del header row[9:11]
            data.append(header row)
            # print(header row,'\n')
            for row in table.find all("tr")[1:]:
                data row = [data.text.strip() for data in row.find all("td")]
                if(len(data row)==13):
                    del data row[1:3]
                if(len(data row)==12):
                    del data row[1:2]
                del data row[9:11]
                  print(data_row,'\n')
            #
                  print(len(data row),'\n')
                data.append(data row)
```

```
#total amount spent for each category of player
In [6]:
            playing_role=[]
            count_of_players=[0,0,0,0]
            playing_role.append([0,0])
            playing_role.append([0,0])
            playing_role.append([0,0])
            playing_role.append([0,0])
            for i in data[1:]:
                  print(i[3])
                if i[3]=='Batsman':
                    playing_role[0][0]=i[6]+playing_role[0][0]
                    playing_role[0][1]=i[8]+playing_role[0][1]
                    count of players[0]=count of players[0]+1
                if i[3]=='All-rounder':
                    playing_role[1][0]=i[6]+playing_role[1][0]
                    playing_role[1][1]=i[8]+playing_role[1][1]
                    count of players[1]=count of players[1]+1
                if i[3]=='Wicket-keeper':
                    playing role[2][0]=i[6]+playing role[2][0]
                    playing role[2][1]=i[8]+playing role[2][1]
                    count_of_players[2]=count_of_players[2]+1
                if i[3]=='Bowler':
                    playing_role[3][0]=i[6]+playing_role[3][0]
                    playing_role[3][1]=i[8]+playing_role[3][1]
                    count of players[3]=count of players[3]+1
            # print(count_of_players)
            # print(playing role)
            y1=[]
            y2=[]
            for i in range(4):
                y1.append((playing_role[i][0]/count_of_players[i]))
                y2.append((playing_role[i][1]/count_of_players[i]))
            # print(y1,y2)
```

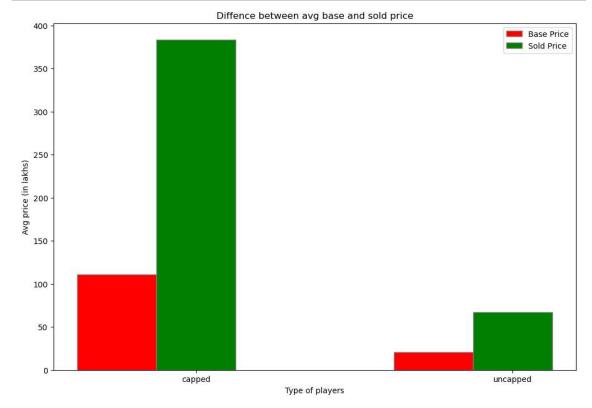
```
In [7]:
            import matplotlib.pyplot as plt
            import numpy as np
            # x axis values
            x = ['Batsman', 'All-rounder', 'Wicket-keeper', 'Bowler']
            # corresponding y axis values
            barWidth = 0.25
            fig = plt.subplots(figsize =(12, 8))
            # plotting the points
            # y1= [y[0][0],y[1][0],y[2][0],y[3][0]]
             # y2 = [y[0][1], y[1][1], y[2][1], y[3][1]] 
            # print(y1)
            # print(y2)
            br1 = np.arange(len(y1))
            br2 = [x + barWidth for x in br1]
            plt.bar(br1, y1, color = 'r', width = barWidth,
                    edgecolor ='grey', label ='Base Price')
            plt.bar(br2, y2, color = 'g', width = barWidth,
                    edgecolor ='grey', label ='Sold Price')
            plt.xlabel('Type of players')
            plt.ylabel('Avg price (in lakhs)')
            plt.title('Diffence between avg base and sold price')
            plt.xticks([r + barWidth for r in range(4)],x)
            plt.legend()
            plt.show()
```



```
In [8]: 

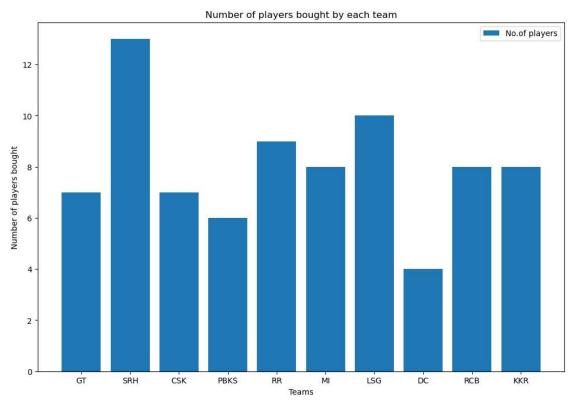
# conclusion 1) the wicketkeepers gather the most
# money while getting sold at the auction
# conclusion 2) the wicketkeepers get the most increase
# in the price hence the competition for them is the most
```

```
In [9]:
         capped players=[0,0,0]
            uncapped_players=[0,0,0]
            for i in data[1:]:
                  print(i[5])
                if i[5]=='Capped':
                    capped_players[0]=capped_players[0]+1
                    capped players[1]=capped players[1]+i[6]
                    capped_players[2]=capped_players[2]+i[8]
                if i[5]=='Uncapped':
                    uncapped_players[0]=uncapped_players[0]+1
                    uncapped_players[1]=uncapped_players[1]+i[6]
                    uncapped_players[2]=uncapped_players[2]+i[8]
            capped players[1]=capped players[1]/capped players[0]
            capped players[2]=capped players[2]/capped players[0]
            uncapped_players[1]=uncapped_players[1]/uncapped_players[0]
            uncapped_players[2]=uncapped_players[2]/uncapped_players[0]
            # print(capped players)
            # print(uncapped players)
```



```
In [11]: 

# capped players are more popular than uncapped players
```



In [14]: ▶ # the number of players bought by each team is as shown above

In [15]: # with this data we can predict the auction for the next year # such as which type of players are going to gather more amount of money # or which players which have more competition etc.