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EDS practical No3
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import numpy as np
# Define the dataset as a NumPy array
data = np.array([
    [1, 'Portugal', 200000000, 'Ronaldo', 33, 'fifa',
22],
    [2, 'Argentina', 300000000, 'Messi', 3, 'fifa',
33],
    [3, 'Brazil', 400000000, 'Ronaldhino', 23, 'aefa',
441,
    [4, 'Brazil', 500000000, 'Kaka', 32, 'uefa', 55],
    [5, 'Coratia', 600000000, 'Modric', 4, 'cefa', 66]
])
# Extract the columns from the NumPy array
pln = data[:, 0].astype(int)
tn = data[:, 1]
sal = data[:, 2].astype(float)
pn = data[:, 3]
qs = data[:, 4].astype(int)
ln = data[:, 5]
mp = data[:, 6].astype(int)
# Print the converted data
print("Player number:", pln)
print("Team name:", tn)
print("Player salaries:", sal)
print("Player name:", pn)
print("Goals score:", qs)
print("League name:", ln)
print("Matches played:", mp)
# 1. Maximum Salary
max salary = np.max(sal)
print("1. Maximum salary:", max salary)
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# 2. Player who scored the most goals
max goals = np.max(qs)
max goals player = pn[gs.argmax()]
print ("2. Player who scored the most goals:",
max goals player)
# 3. Player whose salary is Minimum
min salary player = pn[sal.argmin()]
print ("3. Player whose minimum salary:",
min salary player)
# 4. Minimum Salary
min salary = np.min(sal)
print("4. Minimum salary:", min salary)
# 5. Player whose salary is Maximum
max salary player = pn[sal.argmax()]
print("5. Player whose maximum salary:",
max salary player)
# 6. Player who scored the least goals
min goals = np.min(gs)
min goals player = pn[qs.argmin()]
print ("6. Player who scored the least goals:",
min goals player)
# 7. Average Salary
avg salary = np.mean(sal)
print("7. Average salary:", avg salary)
# 8. League which has the most number of matches
max matches league = ln[mp.argmax()]
print ("8. League with the most played matches:",
max matches league)
# 9. League which has the least number of matches
min matches league = ln[mp.argmin()]
print ("9. League with the least played matches:",
min matches league)
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# 10. Maximum goals in a league

max_goals_league = ln[gs.argmax()]

print("10. League with the maximum goals:",

max_goals_league)

OUTPUT:

C. Player number: [1 2 3 4 5]
    Team name: ['Portugal' 'Argentina' 'Brazil' 'Brazil' 'Coratia']
    Player salaries: [2.e+08 3.e+08 4.e+08 5.e+08 6.e+08]
    Player name: ['Ronaldo' 'Messi' 'Ronaldhino' 'Kaka' 'Modric']
    Goals score: [33 3 23 32 4]
    League name: ['fifa' 'fifa' 'aefa' 'uefa' 'cefa']
    Matches played: [22 33 44 55 66]
    1. Maximum salary: 600000000.0
    2. Player who scored the most goals: Ronaldo
    3. Player whose minimum salary: Modric
    6. Player who scored the least goals: Messi
    7. Average salary: 400000000.0
    8. League with the most played matches: cefa
    9. League with the least played matches: fifa
    10. League with the maximum goals: fifa
```