import numpy as np

import matplotlib.pyplot as plt

patients = np.array([120, 90, 150, 110])

departments = ["Cardiology", "Neurology", "Pediatrics", "Orthopedics"]

max\_index = np.argmax(patients)

highest\_department = departments[max\_index]

print("Patients in each department:")

for dept, count in zip(departments, patients):

    print(dept, ":", count)

print("\nDepartment with highest patients:", highest\_department)

plt.bar(departments, patients, color=['skyblue', 'orange', 'green', 'red'])

plt.title("Number of Patients per Department")

plt.xlabel("Departments")

plt.ylabel("Number of Patients")

plt.show()

OUTPUT:

Patients in each department:

Cardiology : 120

Neurology : 90

Pediatrics : 150

Orthopedics : 110

