```
import numpy as np
import pandas as pd
# Input section
event = input("Enter event type (Wedding/Birthday/Corporate): ").strip().title()
location = input("Enter event location: ").strip().title()
budget = int(input("Enter your total budget in ₹: "))
vendors = \Gamma
       {"name": "Sharma Caterers", "type": "Catering", "location": "Delhi", "price_range": [30000, 40000], "rating": 4.5, "specialty": "Wedd {"name": "Elegant Decor", "type": "Decoration", "location": "Delhi", "price_range": [20000, 30000], "rating": 4.7, "specialty": "Wedd
       {"name": "DJ Beats", "type": "Music", "location": "Delhi", "price_range": [8000, 12000], "rating": 4.2, "specialty": "Wedding"},
       {"name": "Happy Treats", "type": "Catering", "location": "Delhi", "price_range": [15000, 25000], "rating": 4.3, "specialty": "Birthda {"name": "Party Decor", "type": "Decoration", "location": "Delhi", "price_range": [10000, 20000], "rating": 4.5, "specialty": "Birthda type": "Decoration", "location": "Delhi", "price_range": [10000, 20000], "rating": 4.5, "specialty": "Birthda type": "Decoration", "location": "Delhi", "price_range": [10000, 20000], "rating": 4.5, "specialty": "Birthda type": "Decoration": "Delhi", "price_range": [10000, 20000], "rating": 4.5, "specialty": "Birthda type": "Decoration": "Delhi", "price_range": [10000, 20000], "rating": 4.5, "specialty": "Birthda type": "Decoration": "Delhi", "price_range": [10000, 20000], "rating": 4.5, "specialty": "Birthda type": "Decoration": "Delhi", "price_range": [10000, 20000], "rating": 4.5, "specialty": "Birthda type": "Decoration": "Delhi", "price_range": [10000, 20000], "rating": 4.5, "specialty": "Birthda type": "Decoration": "Delhi", "price_range": [10000, 20000], "rating": 4.5, "specialty": "Birthda type": "Decoration": "Delhi", "price_range": [10000, 20000], "rating": 4.5, "specialty": "Birthda type": "Decoration": "Delhi", "price_range": [10000, 20000], "rating": 4.5, "specialty": "Birthda type": "Decoration": "Delhi", "price_range": [10000, 20000], "rating": 4.5, "specialty": "Birthda type": "Decoration": "Delhi" type: "Decoration": "Delhi" type: "Decoration": "Delhi" type: "Dec
       {"name": "DJ Funbox", "type": "Music", "location": "Delhi", "price_range": [5000, 8000], "rating": 4.1, "specialty": "Birthday"},
       {"name": "Corporate Kitchen", "type": "Catering", "location": "Delhi", "price_range": [20000, 30000], "rating": 4.4, "specialty": "Co {"name": "Minimal Decorators", "type": "Decoration", "location": "Delhi", "price_range": [15000, 22000], "rating": 4.2, "specialty":
       {"name": "Conference Beats", "type": "Music", "location": "Delhi", "price_range": [7000, 11000], "rating": 4.0, "specialty": "Corpora
1
# Dynamic budget allocation based on event type
def get_allocation(event, budget):
        if event == "Wedding":
               return {
                      "Catering": int(budget * 0.4),
                       "Decoration": int(budget * 0.25),
                       "Venue": int(budget * 0.2),
                       "Music": int(budget * 0.1),
                       "Misc": int(budget * 0.05)
               }
       elif event == "Birthday":
              return {
                      "Catering": int(budget * 0.3),
                       "Decoration": int(budget * 0.25),
                      "Venue": int(budget * 0.2),
                       "Music": int(budget * 0.15),
                       "Misc": int(budget * 0.1)
              }
       elif event == "Corporate":
              return {
                      "Catering": int(budget * 0.35),
                       "Decoration": int(budget * 0.2),
                       "Venue": int(budget * 0.25),
                      "Music": int(budget * 0.1),
                      "Misc": int(budget * 0.1)
               }
       else:
               print("Invalid event type!")
               return {}
allocation = get_allocation(event, budget)
def recommend_vendors(vendors, location, event, allocation):
       recommendations = []
       for category in ["Catering", "Decoration", "Venue", "Music"]:
              filtered = [
                     v for v in vendors
                      if v['type'] == category
                      and v['location'].lower() == location.lower()
                      and v['specialty'].lower() == event.lower()
                      and v['price_range'][0] <= allocation[category]</pre>
               1
               if filtered:
                      top = sorted(filtered, key=lambda v: v['rating'], reverse=True)[0]
                      recommendations.append(f"- {top['name']} ({category}) \uparrow {top['rating']} - Best fit for budget & event")
        return recommendations
# Event timeline
timeline = {
        "Wedding": [
               "Week 1: Finalize venue & guest list",
               "Week 2: Book caterer and decorator",
               "Week 3: Confirm DJ/music and send invites",
               "Week 4: Final checklist and payments"
       1,
        "Birthday": [
```

```
"Week 1: Choose venue and theme",
       "Week 2: Book decorator and caterer",
       "Week 3: Finalize DJ and cake vendor",
       "Week 4: Confirm attendees and payments"
    "Corporate": [
       "Week 1: Lock venue and agenda",
       "Week 2: Book caterer and AV setup",
       "Week 3: Confirm speakers and materials",
       "Week 4: Final checklist and logistics"
   ]
}
# Input section
event = input("Enter event type (Wedding/Birthday/Corporate): ").strip().title()
location = input("Enter event location: ").strip().title()
budget = int(input("Enter your total budget in ₹: "))
Host = input("Enter Host Name: ")
First Enter event type (Wedding/Birthday/Corporate): Wedding
    Enter event location: Delhi
    Enter your total budget in ₹: 200000
    Enter Host Name: Mehak
# Output
print(f" ♣ Host: {Host}\n")
print(" is Budget Breakdown:")
for k, v in allocation.items():
   print(f"- \{k\}: ₹\{v\}")
print("\n \ Recommended Vendors:")
recommendation_output = recommend_vendors(vendors, location, event, allocation)
if recommendation_output:
   for rec in recommendation_output:
       print(rec)
else:
   print("No vendors matched your criteria.")
for task in timeline.get(event, []):
   print(task)
∓
     🞉 Event: Wedding in Delhi | Budget: ₹200000
     Host: Mehak
     Budget Breakdown:
    - Catering: ₹160000
     - Decoration: ₹100000
     - Venue: ₹80000
    - Music: ₹40000
- Misc: ₹20000
     Recommended Vendors:
    - DJ Beats (Music) ★4.2 - Best fit for budget & event
     Planning Timeline:
    Week 1: Finalize venue & guest list
    Week 2: Book caterer and decorator
    Week 3: Confirm DJ/music and send invites
    Week 4: Final checklist and payments
```