

Application

Project - Expense Trajer using Python

Respected moom

with du suspect It's brief detail of our

friegets (Expense Trajer using Python). This is

final outcome of our whole Python Training

conducted by Sumit Bayay Sir.

This project consist of Python code with function

Team Member Jasuant - B. Tech (A. I) - 2207861520020 Nishant Sengar - B. Tech (A.I) - 2207861520034

Faculty Signature: Ayusti lempto. formanded to Dr. Garma sovastava ma'am

```
project.py - C:/Users/Admin/OneDrive/Desktop/project.py (3.12.1)
File Edit Format Run Options Window Help
import calendar
import datetime
class Expense:
     def _init_(self, name, amount, category):
    self.name = name
    self.amount = amount
    self.category = category
     def _repr_(self):
            return f"Expense: {self.name} {self.category} {self.amount:.2f}"
def main():
           print("Program is running.")
expense file path = "expense.csv"
budget = 30000
           expense = calculate_expense()
           save_to_file(expense, expense_file_path)
           summarize_expenses(expense_file_path, budget)
           continue_running = input("Do you want to continue? (yes/no): ").strip().lower()
if continue_running != 'yes':
                break
def calculate_expense():
     print("Calculating expenses.")
expense name = input("Where did you spend the money? ")
expense_amount = float(input("How much money did you spend there? "))
print(f"Expense name: {expense_name}, Amount: {expense_amount}")
      expense_categories = [
           "food",
"home",
"work",
           "fun",
                                                                                                                                                                                                                                              Ln: 85 Col: 0
                                                                                                                                                                                                           € 40°C
Haze
                                                                                                          🚢 🤼 🖬 🥲 📜 🛍 📵 🖟 🕼
                                                                       Q Search
```

```
- 0 ×
project.py - C:/Users/Admin/OneDrive/Desktop/project.py (3.12.1)
File Edit Format Run Options Window Help
      1
      while True:
           print("Select the category of your expense.")
            for i, category_name in enumerate(expense_categories):
   print(f"{i+l}. {category_name}")
           value range = f"[1-{len(expense_categories)}]"
selected_index = int(input(f"Enter the category number ({value_range}): "}) - 1
           if selected_index in range(len(expense_categories)):
    selected_category = expense_categories[selected_index]
    print(selected_category)
                 new_expense = Expense(name=expense_name, category=selected_category, amount=expense_amount)
                 return new_expense
                print("Invalid category")
def save_to_file(expense, expense_file_path):
    print(f"Saving the expense to file: (expense) at (expense_file_path)")
    with open(expense_file_path, "a") as file:
        file.write(f"{expense.name},{expense.category},{expense.amount}\n")
def summarize_expenses(expense_file_path, budget):
      print("Summary of user expenses:
      expenses = []
      with open(expense_file_path, 'r') as f:
           lines = f.readlines()
for line in lines:
                 expense_name, expense_category, expense_amount = line.strip().split(",")
print(f"(expense_name) {expense_amount} {expense_category}")
                 line_expense = Expense(name=expense_name, amount=float(expense_amount), category=expense_category)
expenses.append(line_expense)
      amount_by_category = {}
      for expense in expenses:
   key = expense.category
            if key in amount by category:
                                                                                                                                                                                                                                              Ln: 85 Col: 0
```

Q Search

🚇 🥵 🗉 C 📜 😭 📵 🖟

● 40°C Haze

```
project.py - C:/Users/Admin/OneDrive/Desktop/project.py (3.12.1)
                                                                                                                                                                                                                                                              - 0 ×
File Edit Format Run Options Window Help
def summarize_expenses(expense_file_path, budget):
      print("Summary of user expenses:")
expenses = []
      with open(expense_file_path, 'r') as f:
   lines = f.readlines()
             for line in lines:
    expense_name, expense_category, expense_amount = line.strip().split(",")
    print(f"(expense_name) {expense_amount} (expense_category)")
    line_expense = Expense(name=expense_name, amount=float(expense_amount), category=expense_category)
                   expenses.append(line_expense)
      amount_by_category = {}
for expense in expenses:
    key = expense.category
             if key in amount_by category:
    amount_by_category[key] += expense.amount
                   amount_by_category[key] = expense.amount
      print("Your expenses by category:")
for key, amount in amount_by_category.items():
    print(f"(key): {amount}")
      total_spent = sum([x.amount for x in expenses])
print(f"Total spent: {total_spent:.2f}")
      remaining_budget = budget - total_spent
      print (f"R
                        maining budget: {remaining_budget:.2f}")
      now = datetime.datetime.now()
days_in_month = calendar.monthrange(now.year, now.month)[1]
remaining_days = days_in_month - now.day
print(f"Remaining days in the month: {remaining_days}")
      daily_budget = remaining_budget / remaining_days
      print("Daily budget:", daily_budget)
if __name__ == "__main__":
    main()
                                                                                                                                                                                                                                                                       Ln: 85 Col: 0
```

🚢 🦀 🖬 🥲 🖺 😭 🗓

Q Search

へ ENG 令 (4)) **(15:10** 年 15:10 年 15:1

● 40°C Haze

File Ho		me	Insert	sert Page l		Formulas
A:	1	+ :	×	~	f _x	travelling
A	А	В		С	D	E
1	travelling	misc		2000		
2	temple	misc		5000		
3	party	Food		2000		
4	games	Fun		500		
5	rent	Home		12000		
6	stationery	Work		100		
7						