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Section: B

Subject: Programming Language

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Tak#1: Create a dictionary of five books and their authors. Print the author for each book.

```
1  books = {  
2      "To Kill a Mockingbird": "Harper Lee",  
3      "1984": "George Orwell",  
4      "The Great Gatsby": "F. Scott Fitzgerald",  
5      "Pride and Prejudice": "Jane Austen",  
6      "Moby Dick": "Herman Melville"  
7  }  
8  print(books["To Kill a Mockingbird"])  
9  print(books["1984"])  
10 print(books["The Great Gatsby"])  
11 print(books["Pride and Prejudice"])  
12 print(books["Moby Dick"])
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/Windows  
Harper Lee  
George Orwell  
F. Scott Fitzgerald  
Jane Austen  
Herman Melville  
PS C:\Users\Admin>
```

Task#2: Build a dictionary of three employees and their salary. Change the salary of one employee and show the final dictionary.

```
C: > Users > Admin > Desktop > programming > home task.py > ...
1 employees = {
2     "Ali": 50000,
3     "Sara": 60000,
4     "Ahmed": 55000
5 }
6 employees["Sara"] = 65000
7 print(employees)

PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/Windows/...
{'Ali': 50000, 'Sara': 65000, 'Ahmed': 55000}
PS C:\Users\Admin>
```

Task#3: Store five movies and their release years. Print the release year of each movie.

```
1  movies = {  
2      "Avatar": 2009,  
3      "Titanic": 1997,  
4      "Inception": 2010,  
5      "The Lion King": 1994,  
6      "Avengers: Endgame": 2019  
7  }  
8  print(movies["Avatar"])  
9  print(movies["Titanic"])  
10 print(movies["Inception"])  
11 print(movies["The Lion King"])  
12 print(movies["Avengers: Endgame"])  
13  
14  
15  
16  
17  
18  
19
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microso  
2009  
1997  
2010  
1994  
2019  
PS C:\Users\Admin>
```

Task#4: Make a dictionary of five subjects and their marks. Check using if-else whether a key named

Math exists.

```
1  subjects = {  
2      "Math": 85,  
3      "English": 78,  
4      "Science": 90,  
5      "History": 70,  
6      "Computer": 95  
7  }  
8  if "Math" in subjects:  
9      print("Math exists in the dictionary.")  
10 else:  
11     print("Math does not exist in the dictionary.")  
12  
13  
14  
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20  
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22  
23  
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/WindowsApp  
Math exists in the dictionary.  
PS C:\Users\Admin>
```

Task#5: Create a dictionary of five animals and the sounds they make. Print each pair.

```
1  animals = {  
2      "Dog": "Bark",  
3      "Cat": "Meow",  
4      "Cow": "Moo",  
5      "Sheep": "Baa",  
6      "Lion": "Roar"  
7  }  
8  
9  print("Dog:", animals["Dog"])  
10 print("Cat:", animals["Cat"])  
11 print("Cow:", animals["Cow"])  
12 print("Sheep:", animals["Sheep"])  
13 print("Lion:", animals["Lion"]]  
14  
15  
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```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/Wind  
Dog: Bark  
Cat: Meow  
Cow: Moo  
Sheep: Baa  
Lion: Roar  
PS C:\Users\Admin>
```

Task#6: Store five usernames and their passwords. Update one password and print the dictionary.

```
1 users = {  
2     "user1": "pass123",  
3     "user2": "hello456",  
4     "user3": "abc789",  
5     "user4": "mypassword",  
6     "user5": "secure999"  
7 }  
8 users["user3"] = "newpass321"  
9 print(users)  
10  
11  
12  
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14  
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16  
17  
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24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/WindowsApps/python3.11.exe "c:/Users/Admin/Desktop/pro  
{'user1': 'pass123', 'user2': 'hello456', 'user3': 'newpass321', 'user4': 'mypassword', 'user5': 'secure999'}  
PS C:\Users\Admin>
```

Task#7: Make a dictionary of fruit names with their prices. Add a new fruit and print everything.

```
1 fruits = {  
2     "Apple": 150,  
3     "Banana": 50,  
4     "Mango": 200,  
5     "Orange": 120,  
6     "Grapes": 180  
7 }  
8 fruits["Pineapple"] = 250  
9 print(fruits)  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
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22  
23  
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/WindowsApps/python3.11.exe "c:/Users/Admin/Desktop/Python/Task7.py"  
{'Apple': 150, 'Banana': 50, 'Mango': 200, 'Orange': 120, 'Grapes': 180, 'Pineapple': 250}  
PS C:\Users\Admin>
```

Task#8: Create a dictionary of five apps and their ratings. Use if-else to check whether WhatsApp is in the dictionary.

```
1  apps = {  
2      "Facebook": 4.2,  
3      "Instagram": 4.5,  
4      "Snapchat": 4.0,  
5      "TikTok": 4.3,  
6      "Twitter": 4.1  
7  }  
8  if "WhatsApp" in apps:  
9      print("WhatsApp is in the dictionary.")  
10 else:  
11     print("WhatsApp is not in the dictionary.")  
12  
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21  
22  
23  
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/Windows/...  
WhatsApp is not in the dictionary.  
PS C:\Users\Admin>
```

Task#9: Store three laptops with their model numbers. Modify one model number and print the result.

```
1  laptops = [
2      "Dell": "XPS13",
3      "HP": "Pavilion15",
4      "Lenovo": "ThinkPadX1"
5  ]
6  laptops["HP"] = "Envy13"
7  print(laptops)
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/WindowsApps/
{'Dell': 'XPS13', 'HP': 'Envy13', 'Lenovo': 'ThinkPadX1'}
PS C:\Users\Admin>
```

Task#10: Build a dictionary of five players and their scores. Print the score of each player.

```
1  players = {  
2      "Messi": 30,  
3      "Ronaldo": 28,  
4      "Neymar": 25,  
5      "Mbappe": 27,  
6      "Salah": 26  
7  }  
8  print("Messi:", players["Messi"])  
9  print("Ronaldo:", players["Ronaldo"])  
10 print("Neymar:", players["Neymar"])  
11 print("Mbappe:", players["Mbappe"])  
12 print("Salah:", players["Salah"])
```

```
13  
14  
15  
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17  
18  
19  
20  
21  
22  
23  
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/Wi  
Messi: 30  
Ronaldo: 28  
Neymar: 25  
Mbappe: 27  
Salah: 26  
PS C:\Users\Admin>
```

Task#11: Create a dictionary that stores five English words and their meanings.

Access each meaning.

```
1  words = {  
2      "Eloquent": "Fluent or persuasive in speaking or writing",  
3      "Ambitious": "Having a strong desire for success or achievement",  
4      "Benevolent": "Well-meaning and kindly",  
5      "Candid": "Truthful and straightforward",  
6      "Diligent": "Showing care and effort in work or duties"  
7  }  
8  print("Eloquent:", words["Eloquent"])  
9  print("Ambitious:", words["Ambitious"])  
10 print("Benevolent:", words["Benevolent"])  
11 print("Candid:", words["Candid"])  
12 print("Diligent:", words["Diligent"])  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/WindowsApps/python3.11.exe "c:/  
Eloquent: Fluent or persuasive in speaking or writing  
Ambitious: Having a strong desire for success or achievement  
Benevolent: Well-meaning and kindly  
Candid: Truthful and straightforward  
Diligent: Showing care and effort in work or duties  
PS C:\Users\Admin>
```

Task#12: Make a dictionary of five cars and their manufacturing companies.

Update one company.

```
1  cars = {  
2      "Mustang": "Ford",  
3      "Civic": "Honda",  
4      "Corolla": "Toyota",  
5      "Model S": "Tesla",  
6      "Camaro": "Chevrolet"  
7  }  
8  cars["Camaro"] = "Dodge"  
9  print(cars)  
10  
11  
12  
13  
14  
15  
16  
17  
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21  
22  
23
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/WindowsApps/python3.11.exe "c:/Users/Admin/Desktop/Task12.py"  
{'Mustang': 'Ford', 'Civic': 'Honda', 'Corolla': 'Toyota', 'Model S': 'Tesla', 'Camaro': 'Dodge'}  
PS C:\Users\Admin>
```

Task#13: Create a dictionary of five meal items and their calories. Add one more item and print the dictionary.

```
1  meals = {  
2      "Burger": 500,  
3      "Pizza": 600,  
4      "Salad": 150,  
5      "Pasta": 400,  
6      "Sandwich": 250  
7  }  
8  meals["Fries"] = 300  
9  print(meals)  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/WindowsApps/python3.11.exe "c:/Users/A  
{'Burger': 500, 'Pizza': 600, 'Salad': 150, 'Pasta': 400, 'Sandwich': 250, 'Fries': 300}  
PS C:\Users\Admin>
```

Task#14: Build a dictionary of five countries and their currency names. Use if-else to check if India is included.

```
1  countries = {  
2      "USA": "Dollar",  
3      "UK": "Pound",  
4      "Japan": "Yen",  
5      "Germany": "Euro",  
6      "Australia": "Australian Dollar"  
7  }  
8  if "India" in countries:  
9      print("India is in the dictionary.")  
10 else:  
11     print("India is not in the dictionary.")  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/WindowsApps/py  
India is not in the dictionary.  
PS C:\Users\Admin>
```

Task#15: Make a dictionary of five friends and their birthdays. Print each birthday.

```
1  friends = {  
2      "Ali": "10-02-2000",  
3      "Sara": "15-05-2001",  
4      "Ahmed": "20-08-1999",  
5      "Ayesha": "12-12-2000",  
6      "Hassan": "05-07-2001"  
7  }  
8  print("Ali:", friends["Ali"])  
9  print("Sara:", friends["Sara"])  
10 print("Ahmed:", friends["Ahmed"])  
11 print("Ayesha:", friends["Ayesha"])  
12 print("Hassan:", friends["Hassan"])  
13  
14  
15 |  
16  
17  
18  
19  
20  
21  
22  
23  
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/Wind  
Ali: 10-02-2000  
Sara: 15-05-2001  
Ahmed: 20-08-1999  
Ayesha: 12-12-2000  
Hassan: 05-07-2001  
PS C:\Users\Admin>
```

Task#16: Create a dictionary of five sports and the number of players required.

Modify one value.

```
1  sports = [
2      "Football": 11,
3      "Basketball": 5,
4      "Cricket": 11,
5      "Tennis": 2,
6      "Volleyball": 6
7  }
8
9  sports["Tennis"] = 1 |
10 print(sports)
11
12
13
14
15
16
17
18
19
20
21
22
23
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/WindowsApps/python3.11.exe "c:/Use
{'Football': 11, 'Basketball': 5, 'Cricket': 11, 'Tennis': 1, 'Volleyball': 6}
PS C:\Users\Admin>
```

Task#17: Store five planets and their distance from the Sun. Print each distance.

```
1  planets = {  
2      "Mercury": 57.9,  
3      "Venus": 108.2,  
4      "Earth": 149.6,  
5      "Mars": 227.9,  
6      "Jupiter": 778.5  
7  }  
8  print("Mercury:", planets["Mercury"], "million km")  
9  print("Venus:", planets["Venus"], "million km")  
10 print("Earth:", planets["Earth"], "million km")  
11 print("Mars:", planets["Mars"], "million km")  
12 print("Jupiter:", planets["Jupiter"], "million km")  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/WindowsApp:  
Mercury: 57.9 million km  
Venus: 108.2 million km  
Earth: 149.6 million km  
Mars: 227.9 million km  
Jupiter: 778.5 million km  
PS C:\Users\Admin>
```

Task#18: Create a dictionary with five languages and the country where they are spoken. Update one country.

```
1 languages = {  
2     "English": "USA",  
3     "Spanish": "Spain",  
4     "French": "France",  
5     "German": "Germany",  
6     "Arabic": "Saudi Arabia"  
7 }  
8 languages["Arabic"] = "Egypt"  
9 print(languages)  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
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```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/WindowsApps/python3.11.exe "c:/Users/Admin/Desktop/LanguageCountry.py"  
{'English': 'USA', 'Spanish': 'Spain', 'French': 'France', 'German': 'Germany', 'Arabic': 'Egypt'}  
PS C:\Users\Admin>
```

Task#19: Build a dictionary of five actors and the number of movies they have acted in. Add one more actor.

```
1 actors = {  
2     "Leonardo DiCaprio": 45,  
3     "Robert Downey Jr.": 50,  
4     "Scarlett Johansson": 60,  
5     "Tom Hanks": 80,  
6     "Brad Pitt": 65  
7 }  
8 actors["Jennifer Lawrence"] = 35  
9 print(actors)  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/WindowsApps/python3.11.exe "c:/Users/Admin/Desktop/programming/home_task.py"  
{'Leonardo DiCaprio': 45, 'Robert Downey Jr.': 50, 'Scarlett Johansson': 60, 'Tom Hanks': 80, 'Brad Pitt': 65, 'Jennifer Lawrence': 35}  
PS C:\Users\Admin>
```

Task#20: Make a dictionary of five songs and their durations. Access and print each duration.

```
1  songs = {  
2      "Shape of You": 4.2,  
3      "Blinding Lights": 3.5,  
4      "Someone Like You": 4.5,  
5      "Bad Guy": 3.2,  
6      "Rolling in the Deep": 3.8  
7  }  
8  print("Shape of You:", songs["Shape of You"], "minutes")  
9  print("Blinding Lights:", songs["Blinding Lights"], "minutes")  
10 print("Someone Like You:", songs["Someone Like You"], "minutes")  
11 print("Bad Guy:", songs["Bad Guy"], "minutes")  
12 print("Rolling in the Deep:", songs["Rolling in the Deep"], "minutes")  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/WindowsApps/python3.11.exe "c:/U  
Shape of You: 4.2 minutes  
Blinding Lights: 3.5 minutes  
Someone Like You: 4.5 minutes  
Bad Guy: 3.2 minutes  
Rolling in the Deep: 3.8 minutes  
PS C:\Users\Admin>
```

Task#21: Create a dictionary of five teachers and their subjects. Change the subject of one teacher.

```
1  teachers = {  
2      "Mr. Ali": "Math",  
3      "Ms. Sara": "English",  
4      "Mr. Ahmed": "Science",  
5      "Ms. Ayesha": "History",  
6      "Mr. Hassan": "Computer"  
7  }  
8  teachers["Ms. Sara"] = "Physics"  
9  print(teachers)  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/WindowsApps/python3.11.exe "c:/Users/Admin/Desktop/programmin  
{'Mr. Ali': 'Math', 'Ms. Sara': 'Physics', 'Mr. Ahmed': 'Science', 'Ms. Ayesha': 'History', 'Mr. Hassan': 'Computer'}  
PS C:\Users\Admin>
```

Task#22: Store five mobile brands and their top model. Use if-else to check if a certain brand exists.

```
1  mobiles = {  
2      "Apple": "iPhone 15 Pro",  
3      "Samsung": "Galaxy S23 Ultra",  
4      "OnePlus": "OnePlus 11",  
5      "Xiaomi": "Mi 13 Pro",  
6      "Oppo": "Find X6 Pro"  
7  }  
8  if "Nokia" in mobiles:  
9      print("Nokia is in the dictionary.")  
10 else:  
11     print("Nokia is not in the dictionary.")  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Microsoft/Windows  
Nokia is not in the dictionary.  
PS C:\Users\Admin>
```