```
DICT Q1)

details={"eison":22,
    "aswin":23,
    "jojo":20,
    "snehal":22,
    "abhi":23,}

print("age=",details["eison"])
```

```
PS C:\Users\ASUS\Desktop\pythonworks\collection_datatype\home work> & /pythonworks/collection_datatype/home work/dict_Q1.py" age= 22
PS C:\Users\ASUS\Desktop\pythonworks\collection_datatype\home work>
```

```
DICT Q2)
dict1 = {"a": 1,"b": 2}
dict2 = {"c": 3,"d": 4}
merged_dict = dict1.copy()
merged_dict.update(dict2)
```

print(merged_dict)

```
PROBLEMS DEBUG CONSOLE PORTS

TERMINAL

PS C:\Users\ASUS\Desktop\pythonworks\collection_datatype\home work> & Desktop/pythonworks/collection_datatype/home work/dict_Q2.py" {'a': 1, 'b': 2, 'c': 3, 'd': 4}

PS C:\Users\ASUS\Desktop\pythonworks\collection_datatype\home work>
```

```
DICT Q3)

score_dict={"appu":75,

    "ammu":60,

    "akhil":88,

    "gokul":95,

    "praveen":100 }

total=0

num=len(score_dict)

for score_dict in score_dict.values():

    total+=score_dict

average_score = total / num if num> 0 else 0

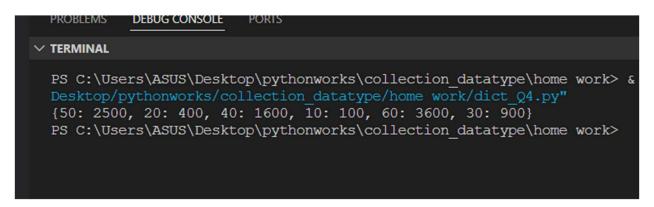
print(f"The average score is: {average_score:.2f}")
```

✓ TERMINAL

PS C:\Users\ASUS\Desktop\pythonworks\collection_datatype\home work>
Desktop/pythonworks/collection_datatype/home work/dict_Q3.py"
The average score is: 83.60
PS C:\Users\ASUS\Desktop\pythonworks\collection_datatype\home work>

DICT Q4)

```
dict1={10,20,30,40,50,60}
even_sqr={num:num**2 for num in dict1 }
print(even_sqr)
```



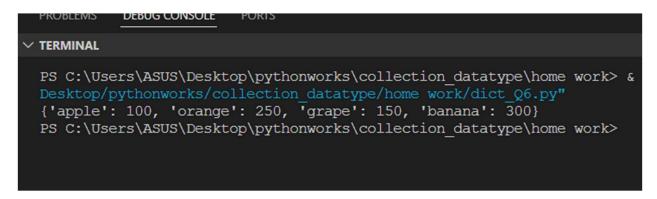
DICT Q5) owners=["elon_mask","tim cook","ratan tata"] owned_company=["spacex","apple","tata_group"] owners_product={owners[i]:owned_company[i] for i in range(len(owners))} print(owners_product)

```
PROBLEMS DEBUG CONSOLE PORTS

V TERMINAL

PS C:\Users\ASUS\Desktop\pythonworks\collection_datatype\home work> & C:/User
Desktop/pythonworks/collection_datatype/home work/dict_Q5.py"
{'elon_mask': 'spacex', 'tim cook': 'apple', 'ratan tata': 'tata_group'}
PS C:\Users\ASUS\Desktop\pythonworks\collection_datatype\home work>
```

DICT Q6) fruits=["apple","orange","grape","banana"] prices=[100,250,150,300] fruits_and_prices={fruits[i]:prices[i] for i in range(len(fruits))} print(fruits_and_prices)



DICT Q7)

product={"mobile":30,"soap":60,"alcohol":150}

new_product={items for items,values in product.items() if values>50}
print(new_product)

OUTPUT>

TERMINAL

PS C:\Users\ASUS\Desktop\pythonworks\collection_datatype\home work>
Desktop/pythonworks/collection_datatype/home work/dict_Q7.py"
{'soap', 'alcohol'}

PS C:\Users\ASUS\Desktop\pythonworks\collection_datatype\home work>

DICT Q8)

```
text="this is my my life my life is simple"
words=text.split(" ")
words_frq={w:words.count(w)for w in words}
print(words_frq)
```

OUTPUT>

✓ TERMINAL

PS C:\Users\ASUS\Desktop\pythonworks\collection_datatype\home work>
Desktop/pythonworks/collection_datatype/home work/dict_Q8.py"
{'this': 1, 'is': 2, 'my': 3, 'life': 2, 'simple': 1}
PS C:\Users\ASUS\Desktop\pythonworks\collection_datatype\home work>

```
DICT Q9)

dict1={"a":1,"b":-2,"c":3}

new_dict={k:v*-1 if v<0 else v for k,v in dict1.items()}

print(new_dict)

OUTPUT>
```

```
✓ TERMINAL
```

PS C:\Users\ASUS\Desktop\pythonworks\collection_datatype\home work> & Desktop/pythonworks/collection_datatype/home work/dict_Q9.py" {'a': 1, 'b': 2, 'c': 3}
PS C:\Users\ASUS\Desktop\pythonworks\collection_datatype\home work>

```
DICT Q10)
product={"diarymilk":100,
     "munch":50,
     "chocobar":25,
     "snikers":40
     }

offer={items:price*0.9 for items,price in product.items()}
print("MRP=",product)
print("offer price=",offer)
```

```
PS C:\Users\ASUS\Desktop\pythonworks\collection_datatype\home work> & C:/Users/ASUS/
/pythonworks/collection_datatype/home work/dict_Q10.py"

MRP= {'diarymilk': 100, 'munch': 50, 'chocobar': 25, 'snikers': 40}
offer price= {'diarymilk': 90.0, 'munch': 45.0, 'chocobar': 22.5, 'snikers': 36.0}
PS C:\Users\ASUS\Desktop\pythonworks\collection_datatype\home work>
```