

## lab 4

1-

```
team_items = []
team_items=input("Enter your list").split()
if 'battery' in team_items:
    print("What did team members bring?\nI don't need to bring the battery")
else:
    print("What did team members bring?\nI will need to bring the battery")
```

3-

```
soup =input ("soup : ") # Engy's soup choice
meal = input ("meal : ") # Engy's main dish choice

vegetable_soup = ['vegetables', 'mushroom']
vegetable_meal = ['mashed potatoes']

# Check if Engy's choices contain vegetables or not
if any(item in vegetable_soup for item in [soup]) and any(item in
vegetable_meal for item in [meal]):
    print("She loves vegetables")
elif not any(item in vegetable_soup for item in [soup]) and not any(item in
vegetable_meal for item in [meal]):
    print("She hates vegetables")
else:
    print("She neither loves nor hates vegetables")
```

5-

```
def convert_to_grams(weight, unit):
    if weight < 0:
        print("Invalid weight")
        return None
    if unit == 1:
        return weight
    elif unit == 2:
        return weight * 1000    # 1 kg = 1000 grams
    elif unit == 3:
        return weight * 1000000 # 1 ton = 1,000,000 grams
    else:
        print("Invalid unit")
        return None

attempts = 0
while attempts < 5:
    weight = float(input("Enter weight: "))
    unit = int(input("Enter weight unit (1 for mg, 2 for kg, 3 for ton): "))

    result = convert_to_grams(weight, unit)
    if result is not None:
        print(result)
        if input("Do you want to make another conversion? (Yes/No): ")
        .lower() != "yes":
            break
        attempts += 1
```

7-

```
friends = input("Enter Friends list separated by comma : ").split(',')
presents = input('Enter presents list separated by comma : ').split(',')
what_is_in_his_mind = 'basketball shoes'
```

```
if what_is_in_his_mind in presents:
    friend_index = presents.index(what_is_in_his_mind)
    friend_who_brought_present = friends[friend_index]
    print(f"Oh {friend_who_brought_present}, Thank you friend :)")
else:
    print("Oops, Sorry none.")
```

