```
# 1.
def check_email_addresses():
    num_addresses = int(input("Enter the number of email addresses: "))
    student_count = 0
    professor_count = 0
    for _ in range(num_addresses):
        email = input("Enter an email address: ")
        if email.endswith("@student.college.edu"):
            student_count += 1
        elif email.endswith("@prof.college.edu"):
            professor_count += 1
    if student_count == num_addresses:
        print("All addresses are student addresses.")
    elif professor_count == num_addresses:
        print("All addresses are professor addresses.")
    else:
        print("There are both student and professor addresses.")
check_email_addresses()
```

```
Enter the number of email addresses: 3
Enter an email address: kim@student.college.edu
Enter an email address: ko@student.college.edu
Enter an email address: kang@prof.college.edu
There are both student and professor addresses.
```

```
# 2.
word = input()

output = ""
for i in range(len(word)):
    if i % 2 != 0:
        output += word[i].upper()
    else:
        output += word[i]

print(output)
```

```
rhinoceros
rHiNoCeRoS
```

```
# 3.
def capitalize_name(name):
    words = name.split()  # Split the name into words
    capitalized_name = ' '.join(word.capitalize() for word in words)
    return capitalized_name

def main():
    name = input("Enter your name in lowercase: ")
    capitalized_name = capitalize_name(name)
    print("Capitalized name:", capitalized_name)

if __name__ == "__main__":
    main()
```

```
Enter your name in lowercase: sPring
Capitalized name: Spring
```