Assignment Final

Instructions: Complete the following 7 programs and submit your solutions by the deadline on Google Classroom. Make sure to test your code thoroughly and use proper indentation and comments.

Due: Friday, 06 April 2025 Total Marks: 70

1. **Function Writing**: Write a function is_palindrome(s) that returns True if s is Collise 202. a palindrome.

Example Input:

madam

Example Output:

True

- 2. **OOP**: Create a BankAccount class with methods deposit() and withdraw(). Ensure withdrawals do not exceed the balance.
- 3. **File Handling**: Write code to read at a son and print the value of the key "username".

```
"ali@example.com",
```

- 4. Error Handling: Write a try-except block to handle division by zero and invalid input (non-integer).
- 5. **List Comprehension**: Convert this loop to a list comprehension:

```
squares = [
for x in range(10):
  squares.append(x^{**}2)
```

- 6. **Deployment**: Describe how you would deploy a Python app. i.e. a Website
- 7. **Lambda**: Use filter() and a lambda function to extract even numbers from [1, 2, 3, 4, 5]

Note:

- 1. Use proper **indentation** and **comments** in your code.
- 2. Test your programs with different inputs to ensure they work correctly.
- 3. Submit your solutions by the deadline.

Python Online Free Ramzammad Sherpao