

Elnur Mammadov 604.23E, Problem 14

Task 1.

Answer:

"A closure in Dart is a function that captures and remembers variables from its lexical scope, even after that scope has been exited. This means it can access and modify variables defined in its outer function even when called outside that function."

Task 2.

Answer:

```
String reverseString(String input) {
    String reversed = '';
    for (int i = input.length - 1; i >= 0; i--) {
        reversed += input[i];
    }
    return reversed;
}

void main() {
    var s = "Lorem";
    print(reverseString(s));
}
```

Task 3.

Answer:

```
class Notification { String title; String message;
    Notification(this.title, this.message);
    void send() { print('[$title]: $message'); }
}

void main() {

    var notification = Notification('Update Available', 'New Version is
ready to install.');
```

```
    notification.send();
}
```

Task 4.

Answer:

```
mixin Shareable {  
  void share() {  
    print('Publishing documents');  
  }  
}  
  
class Document with Shareable {  
  String content;  
  
  Document(this.content);  
  
  void display() {  
    print('Document content: $content');  
  }  
}  
  
void main() {  
  var test = Document('My wikipedia');  
  
  test.display();  
  test.share();  
}
```