CREATE

DEFINE BEHAVIOUR

```
//mocks
- when(mock.sampleMethod())
   .thenReturn(sampleVal);
- when(mock.sampleMethod())
   .thenThrow(SampleException.class);
- when(mock.sampleMethod())
   .thenAnswer(inv -> ...)
//spies or void methods
doReturn(value)
  .when(spy).method();
- doThrow(new ExceptionClass())
  .when(spy).metohd();
- doNothing().when(spy).method();
//static mocks
staticMock.when(() ->
 StaticClass.method().thenReturn(val);
//argument matchers
when(mock.sampleMethod(any(),
  anyDouble())).thenReturn(sampleVal);
```

VERIFY BEHAVIOUR

```
//method() invoked once
- verify(mockClass, times(1)).method();
//method never invoked
- verify(mockClass, never()).method();
//no more methods invoked
- verifyNoMoreInteractions(mockClass);
```

ARGUMENT CAPTORS

```
1. Define:
@Captor
private ArgumentCaptor<Double>
    doubleCaptor;

2. Capture:
verify(mock, times(1)).method(eq(val),
    doubleCaptor.capture());

3. Get value:
double capturedArgument =
    doubleCaptor.getValue();
```

MOCKITO BDD

```
// when...thenReturn
given(mock.method()).willReturn(val);
// verify(class, times(1)).method()
then(mock).should(times(1)).method();
```

SAMPLE TEST WITH A MOCK

```
@ExtendWith(MockitoExtension.class)
class ForCheatSheet {
 @InjectMocks
 private BookingService bookingService;
 private RoomService roomServiceMock;
 @Test
 void sample() {
  // given
  when(this.roomServiceMock.getAvailableRooms())
    .thenReturn(Collections.singletonList(new
         Room("Room 1", 5)));
  int expected = 5;
  // when
  int actual =
     bookingService.getAvailablePlaceCount();
  assertEquals(expected, actual);
 }
}
```