Whitebox testiranje

Testovi su rađeni na metodi calculateWithHolidays u DiscountService:

```
public int calculateWithHolidays(int regularPrice,int numberOfCoins, DateTime date) {
  if (date == null | | date < DateTime.Now)
  {
    throw new ArgumentException();
  }
  double holidayDiscount = 0;
  if (date.Month == 1 && date.Day == 1)
  {
    holidayDiscount = 0.5;
  }
  return (int)(regularPrice - (regularPrice * (numberOfCoins / (double)100)) - regularPrice *
holidayDiscount);
}
Line coverage:
[TestMethod]
public void calculateWithHolidays_dateIsNull_throwsException()
{
  DiscountService discountService = new DiscountService();
  DateTime datum = new DateTime();
  Assert.ThrowsException<ArgumentException>(() => discountService.calculateWithHolidays(100, 50,
datum));
}
```

[TestMethod]

```
public void calculateWithHolidays_invalidDate_throwsException()
  DiscountService discountService = new DiscountService();
  DateTime datum = new DateTime(2000, 2, 2);
  Assert.ThrowsException<ArgumentException>(() => discountService.calculateWithHolidays(100, 50,
datum));
}
[TestMethod]
public\ void\ calculate With Holidays\_new Year Discount\_returns Discounted Price ()
{
  DiscountService discountService = new DiscountService();
  DateTime datum = new DateTime(2025, 1, 1);
  Assert.AreEqual( 0, discountService.calculateWithHolidays(100, 50, datum));
}
[TestMethod]
public void calculateWithHolidays_noHolidayDiscount_returnsDiscountedPrice()
{
  DiscountService discountService = new DiscountService();
  DateTime datum = new DateTime(2025, 2, 1);
  Assert.AreEqual(50, discountService.calculateWithHolidays(100, 50, datum));
```