Question 2

Activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/page1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="First"
        app:layout_constraintEnd_toStartOf="@+id/page2"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent"
        tools:layout_editor_absoluteY="256dp" />

    <Button
        android:id="@+id/page2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Second"

        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toEndOf="@+id/page1"
        tools:layout_editor_absoluteY="0dp" />

    <FrameLayout
        android:id="@+id/Pagechanger"
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_marginTop="40dp"
```

```
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/page1"
        tools:layout_editor_absoluteX="0dp" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

First page

Fragment_first.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".FirstFragment">

    <!-- TODO: Update blank fragment layout -->
    <TextView
        android:id="@+id/tvFirstFragment"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="First Page by Ike Midterm Question2"
        android:textSize="30sp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.5" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

Second page

Fragment_second.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".FirstFragment">

    <!-- TODO: Update blank fragment layout -->
    <TextView


        android:id="@+id/tvSecondFragment"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Second Page by Ike Midterm Question 2"
        android:textSize="30sp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.5" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

Firstfragment.kt


```kotlin
package com.example.fragment

import android.os.Bundle
import androidx.fragment.app.Fragment
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup

// TODO: Rename parameter arguments, choose names that match
// the fragment initialization parameters, e.g. ARG_ITEM_NUMBER
private const val ARG_PARAM1 = "param1"
```

```kotlin
private const val ARG_PARAM2 = "param2"

// remembered what we did in class and tried to make it as simple as possible to avoid errors
// #1213488 Okpala Ikechukwu Answer 2
/**
 * A simple [Fragment] subclass.
 * Use the [FirstFragment.newInstance] factory method to
 * create an instance of this fragment.
 */
class FirstFragment : Fragment(R.layout.fragment_first) {
    // TODO: Rename and change types of parameters
    private var param1: String? = null
    private var param2: String? = null

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        arguments?.let {
            param1 = it.getString(ARG_PARAM1)
            param2 = it.getString(ARG_PARAM2)
        }
    }

    override fun onCreateView(
        inflater: LayoutInflater, container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View? {
        // Inflate the layout for this fragment
        return inflater.inflate(R.layout.fragment_first, container, false)
    }

    companion object {
        /**
         * Use this factory method to create a new instance of
         * this fragment using the provided parameters.
         *
         * @param param1 Parameter 1.
         * @param param2 Parameter 2.
         * @return A new instance of fragment FirstFragment.
         */
        // TODO: Rename and change types and number of parameters
        @JvmStatic
        fun newInstance(param1: String, param2: String) =
            FirstFragment().apply {
                arguments = Bundle().apply {
```

```kotlin
            putString(ARG_PARAM1, param1)
            putString(ARG_PARAM2, param2)
        }
    }
  }
}
```

Mainactivity.kt

```kotlin
package com.example.fragment

import android.os.Bundle
import androidx.activity.enableEdgeToEdge
import androidx.appcompat.app.AppCompatActivity
import androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat
import android.widget.Button


class MainActivity : AppCompatActivity() {
  override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    enableEdgeToEdge()
    setContentView(R.layout.activity_main)

    // Okpala Ikechukwu Midterm question 2 answer

    val firstFragment = FirstFragment()
    val secondFragment = SecondFragment()
    val fragment1: Button = findViewById(R.id.page1)
    val fragment2: Button = findViewById(R.id.page2)

    // i used page changer to move from page to page

    supportFragmentManager.beginTransaction().apply{
      replace(R.id.Pagechanger, firstFragment)
      commit()
    }
    fragment1.setOnClickListener{
      supportFragmentManager.beginTransaction().apply {
        replace(R.id.Pagechanger, firstFragment)
        commit()
      }
```

```kotlin
        }
        fragment2.setOnClickListener{
            supportFragmentManager.beginTransaction().apply {
                replace(R.id.Pagechanger, secondFragment)
                commit()
            }
        }




        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) { v, insets ->
            val systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars())
            v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom)
            insets
        }
    }
}
```

SecondFragment.kt

```kotlin
package com.example.fragment

import android.os.Bundle
import androidx.fragment.app.Fragment
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup

// TODO: Rename parameter arguments, choose names that match
// the fragment initialization parameters, e.g. ARG_ITEM_NUMBER
private const val ARG_PARAM1 = "param1"
private const val ARG_PARAM2 = "param2"

/**
 * A simple [Fragment] subclass.
 * Use the [FirstFragment.newInstance] factory method to
 * create an instance of this fragment.
 */
class SecondFragment : Fragment(R.layout.fragment_second) {
    // TODO: Rename and change types of parameters
```

```kotlin
    private var param1: String? = null
    private var param2: String? = null

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        arguments?.let {
            param1 = it.getString(ARG_PARAM1)
            param2 = it.getString(ARG_PARAM2)
        }
    }

    override fun onCreateView(
        inflater: LayoutInflater, container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View? {
        // Inflate the layout for this fragment
        return inflater.inflate(R.layout.fragment_second, container, false)
    }

    companion object {
        /**
         * Use this factory method to create a new instance of
         * this fragment using the provided parameters.
         *
         * @param param1 Parameter 1.
         * @param param2 Parameter 2.
         * @return A new instance of fragment FirstFragment.
         */
        // TODO: Rename and change types and number of parameters
        @JvmStatic
        fun newInstance(param1: String, param2: String) =
            FirstFragment().apply {
                arguments = Bundle().apply {
                    putString(ARG_PARAM1, param1)
                    putString(ARG_PARAM2, param2)
                }
            }
    }
}
```

First Page by Ike Midterm
Question2

First   Second

Running Devices   Pixel 8 Pro API 34

First   Second

Second Page by Ike Midterm
Question 2

37:57   LF   UTF-8   4 spaces