PROGRAM NO :1

AIM: Design a registration activity and store registration details in local memory of phone using Intents and SharedPreferences

PROGRAM CODE:

| Mainac tivity.java | ```java
//Design a registration activity and store registration details in local memory of phone using Intents and SharedPreferences.
package com.example.co2_q1;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {
    String Name;
    String Address;
    String Phone;
    String Email;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public void onSubmit(View view){
        EditText name = (EditText) findViewById(R.id.name);
        EditText add = (EditText) findViewById(R.id.add);
        EditText phone = (EditText) findViewById(R.id.phone);
        EditText email = (EditText) findViewById(R.id.email);
        Intent i = new Intent(getApplicationContext(),MainActivity2.class);
        Name=  name.getText().toString();
        Address = add.getText().toString();
        Phone = phone.getText().toString();
        Email = email.getText().toString();
        SharedPreferences sharedPreferences =
getSharedPreferences("MySharedPref",MODE_PRIVATE);
        SharedPreferences.Editor myEdit = sharedPreferences.edit();
        myEdit.putString("name", name.getText().toString());
        myEdit.putString("add", add.getText().toString());
        myEdit.putString("phone", phone.getText().toString());
        myEdit.putString("email", email.getText().toString());
        myEdit.apply();
        i.putExtra("Name",Name);
        i.putExtra("Address",Address);
        i.putExtra("Phone",Phone);
        i.putExtra("Email",Email);
        startActivity(i);
    }

    @Override
    protected void onResume() {
        super.onResume();
``` |

| | ```
EditText name = (EditText) findViewById(R.id.name);
EditText add = (EditText) findViewById(R.id.add);
EditText phone = (EditText) findViewById(R.id.phone);
EditText email = (EditText) findViewById(R.id.email);
SharedPreferences sh = getSharedPreferences("MySharedPref",
MODE_PRIVATE);
    name.setText(sh.getString("name",""));
    add.setText(sh.getString("add",""));
    phone.setText(sh.getString("phone",""));
    email.setText(sh.getString("email",""));

  }
}
``` |
| Mainac<br>tivity2.java | ```
package com.example.co2_q1;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.widget.TextView;

public class MainActivity2 extends AppCompatActivity {

  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main2);

    TextView t1 = (TextView) findViewById(R.id.name2);
    TextView t2 = (TextView) findViewById(R.id.add2);
    TextView t3 = (TextView) findViewById(R.id.phone2);
    TextView t4 = (TextView) findViewById(R.id.email2);
    Bundle extras = getIntent().getExtras();
    String name2 = extras.getString("Name");
    String add2 = extras.getString("Address");
    String phone2 = extras.getString("Phone");
    String email2 = extras.getString("Email");
    t1.setText(name2);
    t2.setText(add2);
    t3.setText(phone2);
    t4.setText(email2);
  }

}
``` |

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:layout_width="match_parent"
	    android:layout_height="match_parent"
	    android:background="#FFEB3B"
	    tools:context=".MainActivity">
	
	    <EditText
	        android:id="@+id/add"
	        android:layout_width="wrap_content"
	        android:layout_height="wrap_content"
	        android:ems="10"
	        android:hint="Address"
	        android:inputType="textPostalAddress"
	        app:layout_constraintBottom_toBottomOf="parent"
	        app:layout_constraintEnd_toEndOf="parent"
	        app:layout_constraintHorizontal_bias="1.0"
	        app:layout_constraintStart_toStartOf="parent"
	        app:layout_constraintTop_toTopOf="parent"
	        app:layout_constraintVertical_bias="0.412" />
	
	    <EditText
	        android:id="@+id/email"
	        android:layout_width="wrap_content"
	        android:layout_height="wrap_content"
	        android:ems="10"
	        android:hint="Email"
	        android:inputType="textWebEmailAddress"
	        app:layout_constraintBottom_toBottomOf="parent"
	        app:layout_constraintEnd_toEndOf="parent"
	        app:layout_constraintHorizontal_bias="1.0"
	        app:layout_constraintStart_toStartOf="parent"
	        app:layout_constraintTop_toTopOf="parent"
	        app:layout_constraintVertical_bias="0.661" />
	
	    <EditText
	        android:id="@+id/phone"
	        android:layout_width="wrap_content"
	        android:layout_height="wrap_content"
	        android:ems="10"
	        android:hint="Phone"
	        android:inputType="phone"
	        app:layout_constraintBottom_toBottomOf="parent"
	        app:layout_constraintEnd_toEndOf="parent"
	        app:layout_constraintHorizontal_bias="1.0"
	        app:layout_constraintStart_toStartOf="parent"
	        app:layout_constraintTop_toTopOf="parent"
	        app:layout_constraintVertical_bias="0.529" />
	
	    <TextView
	        android:id="@+id/t1"
	        android:layout_width="132dp"
	        android:layout_height="30dp"
	        android:text="Name"
	        android:textAlignment="center"
	        android:textStyle="bold"
	``

```xml
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.093"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.313" />

    <TextView
        android:id="@+id/t4"
        android:layout_width="132dp"
        android:layout_height="30dp"
        android:text="Email"
        android:textAlignment="center"
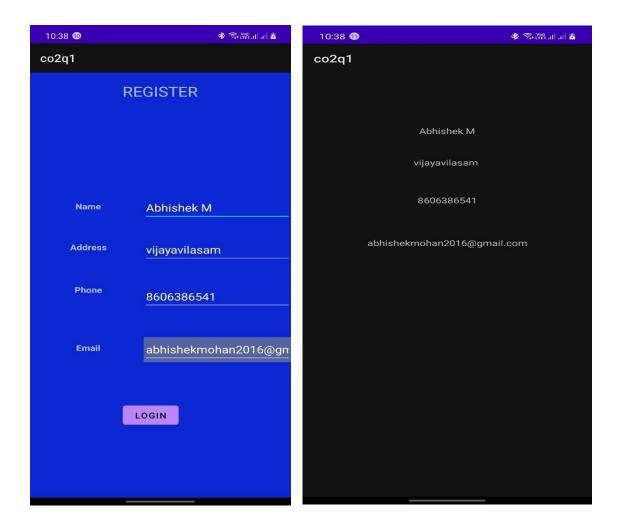        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.093"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.659" />

    <TextView
        android:id="@+id/t2"
        android:layout_width="132dp"
        android:layout_height="30dp"
        android:text="Address"
        android:textAlignment="center"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.093"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.413" />

    <TextView
        android:layout_width="230dp"
        android:layout_height="37dp"
        android:text="REGISTER"
        android:textAlignment="center"
        android:textSize="24sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.023" />

    <TextView
        android:id="@+id/t3"
        android:layout_width="132dp"
        android:layout_height="30dp"
        android:text="Phone"
        android:textAlignment="center"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.093"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
```

	app:layout_constraintVertical_bias="0.517" />
	
	<EditText
	  android:id="@+id/name"
	  android:layout_width="wrap_content"
	  android:layout_height="wrap_content"
	  android:ems="10"
	  android:hint="Name"
	  android:inputType="textPersonName"
	  app:layout_constraintBottom_toBottomOf="parent"
	  app:layout_constraintEnd_toEndOf="parent"
	  app:layout_constraintHorizontal_bias="1.0"
	  app:layout_constraintStart_toStartOf="parent"
	  app:layout_constraintTop_toTopOf="parent"
	  app:layout_constraintVertical_bias="0.307" />
	
	<Button
	  android:id="@+id/button"
	  android:layout_width="wrap_content"
	  android:layout_height="wrap_content"
	  android:layout_marginStart="144dp"
	  android:layout_marginTop="51dp"
	  android:layout_marginEnd="177dp"
	  android:layout_marginBottom="133dp"
	  android:onClick="onSubmit"
	  android:text="Login"
	  app:layout_constraintBottom_toBottomOf="parent"
	  app:layout_constraintEnd_toEndOf="parent"
	  app:layout_constraintHorizontal_bias="1.0"
	  app:layout_constraintStart_toStartOf="parent"
	  app:layout_constraintTop_toBottomOf="@+id/email"
	  app:layout_constraintVertical_bias="1.0" />
	
	</androidx.constraintlayout.widget.ConstraintLayout>

Activity_main2. 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=".MainActivity2">
	
	  <TextView
	    android:id="@+id/name2"
	    android:layout_width="239dp"
	    android:layout_height="26dp"
	    android:text="TextView"
	    android:textAlignment="center"
	    app:layout_constraintBottom_toBottomOf="parent"
	    app:layout_constraintEnd_toEndOf="parent"
	    app:layout_constraintHorizontal_bias="0.498"
	    app:layout_constraintStart_toStartOf="parent"

```xml
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.128" />

        <TextView
            android:id="@+id/email2"
            android:layout_width="239dp"
            android:layout_height="26dp"
            android:text="TextView"
            android:textAlignment="center"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.401" />

        <TextView
            android:id="@+id/add2"
            android:layout_width="239dp"
            android:layout_height="26dp"
            android:text="TextView"
            android:textAlignment="center"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.205" />

        <TextView
            android:id="@+id/phone2"
            android:layout_width="239dp"
            android:layout_height="26dp"
            android:text="TextView"
            android:textAlignment="center"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.297" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

OUTPUT:

RESULT

Program Has Been Succesfully Executed And Output Is Obtained.