PROGRAM

Aim : TO DO LIST

Main Activity.java

```java
package com.example.todo;

import androidx.appcompat.app.AppCompatActivity;

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

public class MainActivity extends AppCompatActivity {
    Button btn;
    TextView tv1l;
    SharedPreferences sharedPreferences;
    public static  final String SHARED_PREF_NAME="mypref";
    public static  final String KEY_NAME="";


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

    }

    private void addListeneronButton() {
        btn=(Button) findViewById(R.id.btnadd);
        tv1l=(TextView) findViewById(R.id.tv111);
        sharedPreferences = getSharedPreferences(SHARED_PREF_NAME,MODE_PRIVATE);

        String name=sharedPreferences.getString(KEY_NAME,String.valueOf(0));

        tv1l.setText("Name "+name);
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {


                Intent intent=new Intent(MainActivity.this,add.class);
                startActivity(intent);
            }
        });
    }
}
```

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"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/btnadd"
        android:layout_width="87dp"
        android:layout_height="52dp"
        android:text="ADD"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/tv111"
        app:layout_constraintVertical_bias="0.12" />

    <TextView
        android:id="@+id/tv111"
        android:layout_width="293dp"
        android:layout_height="100dp"
        android:layout_marginTop="176dp"
        android:textFontWeight="@integer/material_motion_duration_long_1"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.745"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

add.java

```java
package com.example.todo;

import androidx.appcompat.app.AppCompatActivity;

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

public class add extends AppCompatActivity {
    EditText tf;
    TextView tv;
    Button sub;
    String n1;
    SharedPreferences sharedPreferences;
```

```java
public static  final String SHARED_PREF_NAME="mypref";
public static  final String KEY_NAME="";

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

private void addButton() {
    sub = (Button) findViewById(R.id.btnsub);
    tv = (TextView) findViewById(R.id.textviewname);
    tf = (EditText) findViewById(R.id.editTextdta);
    sharedPreferences = getSharedPreferences(SHARED_PREF_NAME,MODE_PRIVATE);
    String name = sharedPreferences.getString(KEY_NAME, String.valueOf(0));
    sub.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            String n1=tf.getText().toString();

            SharedPreferences.Editor editor = sharedPreferences.edit();
            editor.putString(KEY_NAME,n1);
            editor.commit();


            Intent int1 = new Intent(add.this, MainActivity.class);
            startActivity(int1);
        }
    });
}
}
```

activity_add.xml

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

    <Button
        android:id="@+id/btnsub"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="56dp"
        android:text="SAVE"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/editTextdta"
        app:layout_constraintVertical_bias="0.241" />

    <EditText
        android:id="@+id/editTextdta"
        android:layout_width="199dp"
        android:layout_height="54dp"
```

```xml
                android:layout_marginTop="248dp"
                android:ems="10"
                android:inputType="textPersonName"
                app:layout_constraintEnd_toEndOf="parent"
                app:layout_constraintStart_toStartOf="parent"
                app:layout_constraintTop_toTopOf="parent" />

        <TextView
                android:id="@+id/textviewname"
                android:layout_width="207dp"
                android:layout_height="46dp"
                android:text="Name"
                app:layout_constraintBottom_toTopOf="@+id/editTextdta"
                app:layout_constraintEnd_toEndOf="parent"
                app:layout_constraintStart_toStartOf="parent"
                app:layout_constraintTop_toTopOf="parent"
                app:layout_constraintVertical_bias="0.686" />
    </androidx.constraintlayout.widget.ConstraintLayout>
```

OUTPUT