**PROGRAM 10**

**MainActivity.java**

package com.example.myapplication;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Context;  
import android.graphics.Canvas;  
import android.graphics.Color;  
import android.graphics.Paint;  
import android.os.Bundle;  
import android.view.MotionEvent;  
import android.view.View;  
  
public class MainActivity extends AppCompatActivity {  
 float x=100,y=100,x1=400,y1=400;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(new myview(this));  
 }  
 public class myview extends View{  
 public myview(Context context){  
 super(context);  
 }  
 @Override  
 protected void onDraw(Canvas canvas){  
 super.onDraw(canvas);  
 Paint p=new Paint();  
 p.setColor(Color.*CYAN*);  
 p.setStrokeWidth(40);  
 canvas.drawLine(x,y,x1,y1,p);  
 }  
 @Override  
 public boolean onTouchEvent(MotionEvent event){  
 x=x1;  
 y=y1;  
 x1=event.getX();  
 y1=event.getY();  
 this.invalidate();  
 return super.onTouchEvent(event);  
 }  
 }  
}

****