

## Add two numbers

```
import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;

public class MainActivity extends AppCompatActivity {

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

    public void onClick(View view) {
        num1=(EditText)findViewById(R.id.txtnumber1);
        num2=(EditText)findViewById(R.id.txtnumber2);
        Add=(Button)findViewById(R.id.button);
        Answer=(TextView)findViewById(R.id.textView);
        Add.setOnClickListener(new View.OnClickListener(){
            @Override
            public void onClick(View view){
                int number1=Integer.parseInt(num1.getText().toString());
                int number2=Integer.parseInt(num2.getText().toString());
                int sum=number1+number2;
                answer.setText("Answer:"+String.valueOf(sum));
            }
        });
    }
}
```

## CALCULATOR

```
package com.example.calculator2;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {
    Button
    btn1,btn2,btn3,btn4,btn5,btn6,btn7,btn8,btn9,btn0,btnadd,btnsub,btndiv,btnmul,
    btndot,btnequal;
    Button btnclear;
```

```

EditText ed1;
Float Res1,Res2;
boolean add,sub,mul,div;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    btn1=(Button) findViewById(R.id.btn1);
    btn2=(Button) findViewById(R.id.btn2);
    btn3=(Button) findViewById(R.id.btn3);
    btn4=(Button) findViewById(R.id.btn4);
    btn5=(Button) findViewById(R.id.btn5);
    btn6=(Button) findViewById(R.id.btn6);
    btn7=(Button) findViewById(R.id.btn7);
    btn8=(Button) findViewById(R.id.btn8);
    btn9=(Button) findViewById(R.id.btn9);
    btn0=(Button) findViewById(R.id.btnzero);
    btnadd=(Button) findViewById(R.id.btnadd);
    btnsub=(Button) findViewById(R.id.btnsub);
    btnmul=(Button) findViewById(R.id.btnmul);
    btndiv=(Button) findViewById(R.id.btndiv);
    btnequal=(Button) findViewById(R.id.btnequal);
    btndot=(Button) findViewById(R.id.btndot);
    btnclear=(Button) findViewById(R.id.btnclear);
    ed1=(EditText) findViewById(R.id.editText);

    btn1.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            ed1.setText(ed1.getText()+"1");
        }
    });
    btn2.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            ed1.setText(ed1.getText()+"2");
        }
    });
    btn3.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            ed1.setText(ed1.getText()+"3");
        }
    });
    btn4.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            ed1.setText(ed1.getText()+"4");
        }
    });
    btn5.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            ed1.setText(ed1.getText()+"5");
        }
    });
    btn6.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            ed1.setText(ed1.getText()+"6");
        }
    });

```

```

    }
});
btn7.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        ed1.setText(ed1.getText()+"7");
    }
});
btn8.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        ed1.setText(ed1.getText()+"8");
    }
});
btn9.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        ed1.setText(ed1.getText()+"9");
    }
});
btn0.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        ed1.setText(ed1.getText()+"0");
    }
});

btndot.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        ed1.setText(ed1.getText()+".");
    }
});

btnadd.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        if(ed1==null){
            ed1.setText("");
        }
        else {
            Res1=Float.parseFloat(ed1.getText()+"");
            add=true;
            ed1.setText(null);
        }
    }
});

btndiv.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        if(ed1==null){
            ed1.setText("");
        }
        else {
            Res1=Float.parseFloat(ed1.getText()+"");
            div=true;
            ed1.setText(null);
        }
    }
});

```

```

btnsub.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        if(ed1==null){
            ed1.setText("");
        }
        else {
            Res1=Float.parseFloat(ed1.getText()+"");
            sub=true;
            ed1.setText(null);
        }
    }
});

btnmul.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        if(ed1==null){
            ed1.setText("");
        }
        else {
            Res1=Float.parseFloat(ed1.getText()+"");
            mul=true;
            ed1.setText(null);
        }
    }
});

btnequal.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Res2=Float.parseFloat(ed1.getText()+"");
        if(add==true){
            ed1.setText(Res1+Res2+"");
            add=false;
        }
        if(sub==true){
            ed1.setText(Res1-Res2+"");
            sub=false;
        }
        if(mul==true){
            ed1.setText(Res1*Res2+"");
            mul=false;
        }
        if(div==true){
            ed1.setText(Res1/Res2+"");
            div=false;
        }
    }
});

btnclear.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        ed1.setText("");
    }
});

```

```
}  
}
```

## DRAWSHAPES

```
package com.example.drawshapes;  
  
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.View;  
  
public class MainActivity extends AppCompatActivity {  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(new myview(this));  
    }  
  
    private class myview extends View  
    {  
        public myview(Context context) {  
            super(context);  
        }  
  
        @Override  
        protected void onDraw(Canvas canvas) {  
            super.onDraw(canvas);  
            Paint paint = new Paint();  
            paint.setColor(Color.GREEN);  
            canvas.drawCircle(500,200,50,paint);  
            canvas.drawRect(100,50,200,200,paint);  
            canvas.drawLine(1000,400,50,800,paint);  
        }  
    }  
}
```

## Login form

```
package com.example.loginform;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.text.TextUtils;
```

```

import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    EditText txtUsername,txtPassword;
    Button btnLogin;

    String pgm_username="admin";
    String pgm_password="admin";

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

        txtUsername=findViewById(R.id.Userame);
        txtPassword=findViewById(R.id.Password);
        btnLogin=findViewById(R.id.Login);

        btnLogin.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                if(TextUtils.isEmpty(txtUsername.getText().toString()) ||
                TextUtils.isEmpty(txtPassword.getText().toString()))
                {
                    Toast.makeText(MainActivity.this, "Username or
password is empty", Toast.LENGTH_LONG).show();
                }else
                if(txtUsername.getText().toString().equals(pgm_username)){
                if(txtPassword.getText().toString().equals(pgm_password)){
                    Toast.makeText(MainActivity.this, "Login
successful", Toast.LENGTH_LONG).show();
                }
                }else{
                    Toast.makeText(MainActivity.this, "Username or password
is incorrect", Toast.LENGTH_LONG).show();
                }
            }
        });
    }
}

```

## Button clicked

```

package com.example.button;

import androidx.appcompat.app.AppCompatActivity;

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

```

```
public class MainActivity extends AppCompatActivity {

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

    public void onClick(View view) {
        TextView text = (TextView) findViewById(R.id.textview);
        text.setText("Button clicked");
    }
}
```