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Roll No: 8239(TYCS-A)

**Subject: Android Development** 

## PRACTICAL – 03

**Aim :-** 1. Find the factorial of the given input number.

- 2. Check whether number is even or odd.
- 3. Check whether the number is prime or not.
- 4. Write a program to check leap year.

```
Code:- package
com.example.practical3a;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle; import
android.view.View; import
android.widget.Button; import
android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
 EditText t1;
 Button b1,b2,b3,b4;
 TextView t2;
@Override
 protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
                                           t1 =
(EditText)findViewById(R.id.t1);
                                     b1 =
(Button)findViewById(R.id.b1);
                                   b2 =
                                   b3 =
(Button)findViewById(R.id.b2);
(Button)findViewById(R.id.b3);
                                   b4 =
(Button)findViewById(R.id.b4);
    t2 = (TextView)findViewById(R.id.t2);
```

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```
b1.setOnClickListener(new View.OnClickListener() {
     @Override
     public void onClick(View v) {
        int i;
int fact =1;
        int n = Integer.parseInt(t1.getText().toString());
                             fact = fact*i;
for(i=1;i<=n;i++){
       t2.setText("Factorial=" +fact);
     }
   });
  b2.setOnClickListener(new View.OnClickListener() {
     @Override
    public void onClick(View view) {
                                               int n =
Integer.parseInt(t1.getText().toString());
                                                if(n
\%2 ==0
          t2.setText("Even Number");
       }
       else {
          t2.setText("Odd Number");
  });
 b3.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
                                             int n =
Integer.parseInt(t1.getText().toString());
                           for (int i = 2; i \le n / 2;
boolean flag = false;
++i) {
                // condition for nonprime number
         if (n \% i == 0) {
flag = true;
                       break;
         }
}
      if(!flag){
         t2.setText("Prime Number");
       }
      else{
         t2.setText(" Not a Prime Number");
```

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```
});
 b4.setOnClickListener(new View.OnClickListener() {
@Override
    public void onClick(View view) {
      int year = Integer.parseInt(t1.getText().toString());
                           if(year\%4==0){
boolean leap=false;
if(year\% 100==0){
                               if (year \% 400 == 0)
leap = true;
                        else
              leap = false;
                leap =
else
true;
               else
leap = false;
if(leap){
         t2.setText(year+" is a leap year ");
else{
         t2.setText(year+" is not a leap year ");
  });
```

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