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Exercises
Exercise 1: Write a test case to check if the entered number is even.
package testingjunit1;
import static org.junit.Assert.assertTrue;
import org.junit.Test;
public class MyAssertTrueTest
  public boolean isEvenNumber(int number)
     boolean result = false;
     if(number\%2==0)
       result = true;
    return result;
  }
  @Test
  public void evennumberTest()
     MyAssertTrueTest asft = new MyAssertTrueTest();
     assertTrue(asft.isEvenNumber(10));
  }
}
// If assertEquals(5,0,1e-15)
Date: 18-04-22
Excercise 2:Write a java test to check square of a number and to check the number of a's in the
given word.
package test;
public class JunitTest
 public int square(int x)
   return x*x;
 public int countA(String w)
```

```
int c=0;
    for(int i=0;i<w.length();i++)</pre>
      if(w.charAt(i)=='a' || w.charAt(i)=='A')
    }
    return c;
}
}
package test;
import static org.junit.jupiter.api.Assertions.*;
import java.util.Scanner;
import org.junit.Test;
class squareTest
  @Test
  void test()
     JunitTest t = new JunitTest();
               Scanner sc = new Scanner(System.in);
               System.out.println("Enter any Number: ");
               int n = sc.nextInt();
     int o = t.square(n);
     assertEquals(24,o);
               sc.close();
  }
}
package test;
import static org.junit.jupiter.api.Assertions.*;
public class countTest
{
  @Test
  void testCount()
  {
     JunitTest a = new JunitTest();
     int count=a.countA("chaitali");
     assertEquals(2,count);
```

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}
}
*_*_*_*_*_*_
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Date:23-04-22
Excercise 3: To test prime number program using assert true .
public class PrimeTest
  boolean primenum(int n)
    boolean flag=true;
     int m=n/2;
    if(n==0||n==1)
       flag=false;
     else
       for(int i=2;i<=m;i++)
          if(n%1==0)
            flag=false;
            break;
       }
    return flag;
```

//Test

import static org.junit.jupiter.api.Assertions.*;

```
import org.junit.jupiter.api.Test;
public class JunitTest1
  @Test
  void TestPrime()
     PrimeTest prm = new PrimeTest();
     assertTrue(prm.primenum(2));
  }
}
DATE: 25-04-22
Excercise 4: Write a junit test to check if the number is posotive.
public class PN
  boolean Method(int n)
     if(n>0)
       return true;
     else
       return false;
  }
}
import static org.junit.jupiter.api.Assertions.*;
import org.junit.jupiter.api.Test;
public class JunitTest2
  @Test
  void Test()
```

```
assertFalse(obj.Method(-3));
  }
}
Excercise 5: Write a junit test for perfect square of a number
import java.lang.*;
public class Psquare
  boolean PerSqr(int n)
     if(n>=0)
       int sr = (int)Math.sqrt(n);
       return((sr*sr)==n);
     return false;
  }
import static org.junit.jupiter.api.Assertions.*;
import org.junit.jupiter.api.Test;
public class JunitTest3
  @Test
  void Test()
     Psquare obj = new Psquare();
     assertTrue(obj.PerSqr(9));
}
```

{

PN obj = new PN();

```
Excercise 6: Write a junit test to check pythagorus theorem.
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```
public class Pythag
  int Pyt(int n,int m)
     int hyp = (int)Math.sqrt((n*n)+(m*m));
     return hyp;
  }
import static org.junit.jupiter.api.Assertions.*;
import org.junit.jupiter.api.Test;
public class JunitTest
  @Test
  void Test()
     Pythag obj = new Pythag();
     assertEquals(obj.Pyt(4,3),5);
}
Excercise 7: Write a junit test to check area of circle.
public class AreaCircle
  public double Carea(double r)
  {
     double Area = 3.14*r*r;
     return Area;
  }
```

```
import org.junit.jupiter.api.Test;

public class JunitTest
{
    @Test
    void Test()
    {
        AreaCircle obj = new AreaCircle();
        assertEquals(obj.Carea(2),12.56);
    }
}
```