

SMART SDLC OUTPUT

1. PRIME NUMBER PROGRAM USING JAVA

AI Code Analysis & Generator

Code Analysis

Code Generation

Code Requirements

prime number using java

Programming Language

Java

Generate Code

Generated Code

```
```java
public class PrimeNumber {

 // Method to check if a number is prime
 public static boolean isPrime(int num) {
 if (num <= 1) {
 return false;
 }
 for (int i = 2; i <= Math.sqrt(num); i++) {
 if (num % i == 0) {
 return false;
 }
 }
 return true;
 }

 // Main method to test the prime number checking function
 public static void main(String[] args) {
 int testNumber = 17; // Replace with any number to check if it's prime
 if (isPrime(testNumber)) {
 System.out.println(testNumber + " is a prime number.");
 }
 }
}
```

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## 2. FACTORIAL PROGRAM USING PYTHON

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Or write requirements here

Describe your software requirements...

Analyze

Requirements Analysis

Analyze the following document and extract key software requirements. Organize them into functional requirements, non-functional requirements, and technical specifications:

**Tenses**

I. Fill in the blanks with past tense forms

I ----- (wake) up around 8:30 am in the morning yesterday. When I ----- (look) at the clock I said "Oh, I am getting late for the Yoga class and my teacher is going to punish me for this". It ----- (be) not the first time for me to be late for the class and my teacher ----- (will) get angry with me just because of the same reason: coming late to the class. Anyway, I ----- (brush) my teeth and put on my clothes immediately and ----- (go) to catch my bus. As soon I ----- (reach) there I was ----- (shock) to see that the bus ----- (leave) taking all the passengers from the bus stop. I ----- (sit) on the bench and I ----- (be) very worried. I ----- (wait) there for the next bus for an hour, but there was no sign of it.

II. Convert the following passage from Past tense to Present tense

I felt so frustrated and disappointed, and I didn't know what to do. Just then one car stopped near me and my friend Charlie called my name. I was very excited to see him, because we hadn't seen each other for the long time. He asked me "What are you doing there alone?" I told him the whole story and ----- him to join me in a ride to the Yoga school. He smiled and said he -----

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### 3. PDF UPLOADED ANALYZE OUTPUT

#### AI Code Analysis & Generator

[Code Analysis](#)[Code Generation](#)

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