## Task 5: Functional Interfaces

Create a method that accepts functions as parameters using Predicate, Function, Consumer, and Supplier interfaces to operate on a Person object.

```
package Day19;
      import java.util.function.Predicate;
      import java.util.function.Function;
      import java.util.function.Consumer;
      import java.util.function.Supplier;
      public class Task5 {
          public static void operateOnPerson(
                  Person person,
                  Predicate<Person> predicate,
                  Function<Person, String> function,
                  Consumer<Person> consumer,
                  Supplier<Person> supplier) {
              if (predicate.test(person)) {
                  System.out.println("Person matches the predicate");
              String result = function.apply(person);
              System.out.println("Result of function: " + result);
              consumer.accept(person);
              Person newPerson = supplier.get();
              System.out.println("New person created: " + newPerson.getName());
          }
          public static void main(String[] args) {
              Person person = new Person("John", 30);
              Predicate<Person> predicate = p -> p.getAge() > 18;
              Function<Person, String> function = p -> "Hello, " + p.getName();
              Consumer<Person> consumer = p -> System.out.println("Consuming person:
 + p.getName());
              Supplier<Person> supplier = () -> new Person("Jane", 25);
              operateOnPerson(person, predicate, function, consumer, supplier);
          }
      }
```

```
Predicate<Person> predicate,
 14
                       Function<Person, String> function,
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                       Consumer<Person> consumer,
                       Supplier<Person> supplier) {
 17
 18
                  if (predicate.test(person)) {
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                        System.out.println("Person matches the predicate");
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                  String result = function.apply(person);
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24
                   System.out.println("Result of function: " + result);
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                  consumer.accept(person);
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 27
                  Person newPerson = supplier.get();
 28
                   System.out.println("New person created: " + newPerson.getName());
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              public static void main(String[] args) {
                  Person person = new Person("John", 30);
 33
                  Predicate<Person> predicate = p -> p.getAge() > 18;
Function<Person, String> function = p -> "Hello, " + p.getName();
 34
 35
                  Consumer<Person> consumer = p -> System.out.println("Consuming person: " + p.getName());
Supplier<Person> supplier = () -> new Person("Jane", 25);
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                  operateOnPerson(person, predicate, function, consumer, supplier);
 40
              }
 41
Markers ☐ Properties ♣ Terminal ☐ Console ☒ ☐ Coverage
<terminated> Task5 [Java Application] C:\Users\Nikita\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_16.0.2.v20210721-1149\
Person matches the predicate
Result of function: Hello, John
Consuming person: John
New person created: Jane
```