1. Problem statement: Write a program to generate a user-defined exception called NegativeAgeException if the user inputs negative value for age.

2. code with comments:

```java
import java.util.Scanner;

class AgeException extends Exception {

 public AgeException(String str) {
  System.out.println(str); //Printing the exception
 }
}
public class AgeExcDemo {

 public static void main(String[] args) {
  Scanner s = new Scanner(System.in);
  System.out.print("Enter ur age :: ");
  int age = s.nextInt();

  try {
   if(age < 18)
    throw new AgeException("Invalid age"); //Throws exception if age is less than 18
   else
    System.out.println("Valid age");
  }
  catch (AgeException a) {
   System.out.println(a);// catches exception if anything else
  }
 }
```
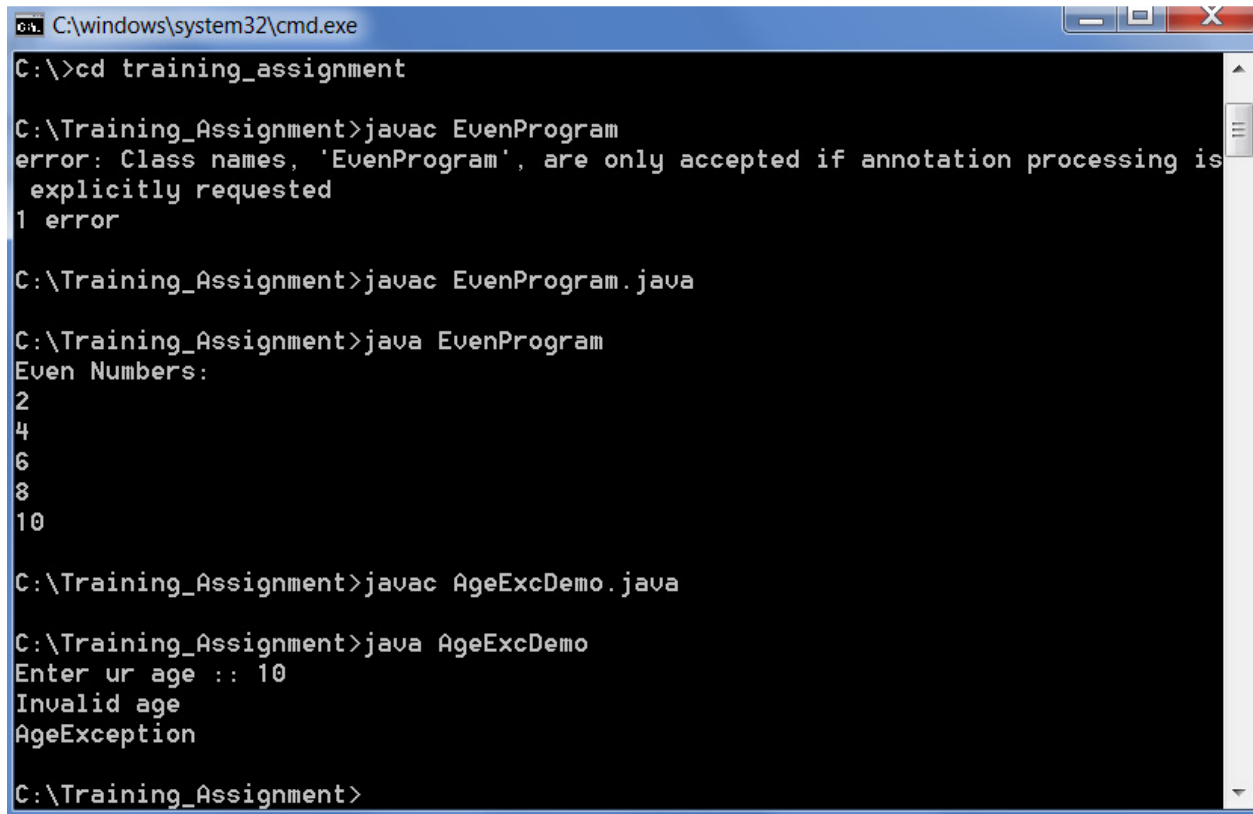
}

3. Explanation of the code: Created a user defined exception which throws exception if age is less than 18 using try catch statements

4. Result flow in detail: Created a user defined exception which throws exception if age is less than 18 using try catch statements

5. Output screenshot:

```
C:\windows\system32\cmd.exe

C:\>cd training_assignment

C:\Training_Assignment>javac EvenProgram
error: Class names, 'EvenProgram', are only accepted if annotation processing is
 explicitly requested
1 error

C:\Training_Assignment>javac EvenProgram.java

C:\Training_Assignment>java EvenProgram
Even Numbers:
2
4
6
8
10

C:\Training_Assignment>javac AgeExcDemo.java

C:\Training_Assignment>java AgeExcDemo
Enter ur age :: 10
Invalid age
AgeException

C:\Training_Assignment>
```