



IRIS Flutter Bootcamp 2022

09/01/2022

Document prepared by IRIS Team

Assignment 1

This coding assignment needs to be completed using Dart and following OOPs principles.

Fork this repo <https://github.com/IRIS-NITK/IRIS-Flutter-Bootcamp-2022.git>.

Clone that repo into your local system on opening the cloned project you will see a folder session_1 then solutions write your solution under that folder.

After completing the assignment commit and push it to the forked repository.

Note: Try using functions even if it is a direct problem

1. Print the first N Fibonacci numbers(N is specified by the user).
2. Write a program to check whether the given number is semiprime or not
3. Check whether the sum of prime elements of the array is prime or not
4. Create a courses module in dart with two classes BranchElective and OpenElective with common fields being courseName and courseCode. BranchElective has two extra fields which are branch and year. The following features are to be implemented
 - a. An admin user can add courses(BranchElective, OpenElective) to the module
 - b. A student can view branch electives based on his/her branch and year
 - c. Any student can view open electives



Example

```
Enter type of user 1.Admin 2.Student
1
Enter course type 1.Open elective 2.Branch elective
1
Enter course name and code
course1 co123
```

```
Enter type of user 1.Admin 2.Student
2
Enter branch and year
cs 2
<List of open electives>
<List of branch electives>
```

Git Resource:

https://youtu.be/SWYqp7iY_Tc

Oops Resource:

<https://youtu.be/pTB0EiLXUC8>

Other:

<https://youtu.be/5rtujDjt50I>