Smart Contract Code Fow

START

ERC20Interface Contract

Inherited

Functions-4.approve
5.transferFrom(to
transfer tokens peer
to peer)
6.allowance

← ScholarshipToken contract →

Functions-1.totalSupply(total no: of tokens
available),
2.balanceOf(to view the balance)
3.transfer(to supply tokens and can be called
by onlyOwner an event Transfer is emitted)

Imported   Inherited

Merit Contract →

Function-
1. enterMarks(studentId,mark1,mark2,mark3
written to blockchain and totalMarks
calculated)

Imported   Inherited

Finance contract →

Function-
1. enterIncome(studentId and income written
to blockchain)

Imported   Inherited

Scholarship contract

getDetails ← functions → register

```
studentId,name,caste,
totalMarks,income,
scholarshipAmount
is available with a key
studentId
```

```
END
```

```
studentId,name,caste is written to blockchain
and scholarshipAmount is calculated based
on certain conditions.
Emit event registration
```