Phase 4:

Requirement (testing objective)	Test case	Output	Error finding (if?)	Change implemented
Staff Id	Staff ali id 993999999	Please enter a valid 7-digits Id.	Input error	We have constructed an invalid exception class to inform the user.
Remove/add a Staff to the staff List	Added ralph and ali as a staff and removed mira.	Successfully added and removed from the staff list.	NIL	
Print staff list	Printed the staff list	Successfully printed the updated list	NIL	
FA budget	Income:70 0000 Expenses: 10 000	690 000	NIL	
Salary value	Salary value: 5000 Deduction:100 Addition: 90	5000	Error in calculation Expected value: 4990	Changed the parameters of deduction and addition. Now it takes the value of the salary and the value that needs to be added/ deducted.
Generate student grade	Student id: 1919191 Grade: 70	B	NIL	
Staff list count	Only 2 staff members in the list	2	NIL	

Control users' access to the system	**2018989**	**User 2018989 successfully added**	NIL	
Control users' access to the system	20150909	"Please enter a 7-digit id number instead of 20150909"	(id>7 digits) User won't be added among system users because only 7-digit id numbers are accepted for system users	We create a class InvalidInputException to detect such errors and throw it to ask for input correction and a valid id 7-digit number is added
Control users' Exit from the system	2018882	User is removed from users with access to the system	NIL	
Control users' Exit from the system	2017	"Please enter a 7-digit id number instead of 2017"	(id<7 digits) User won't be added among system users because only 7-digit id numbers are accepted for system users	We create a class InvalidInputException to detect such errors and throw it to ask for input correction and a valid id 7-digit number is added
Check if a user is among the users allowed to access the system	2015678(knowing that this user is allowed to access the system)	"User 2015678 exists"	NIL	

Check if a user is among the users allowed to access the system	2019876(knowing that this user is not allowed to access the system)	"User 2019876 does not exist"	NIL	
Check if a user is among the users allowed to access the system	20198811223	"please enter a valid 7-digit id number instead of 20198811223"	(id>7 digits) User won't be added among system users because only 7-digit id numbers are accepted for system users	We create a class InvalidInputException to detect such errors and throw it to ask for input correction and a valid id 7-digit number is added
Check if the system users want to report a certain problem	(2019992,"No problem")	"No problem to report"	NIL	
Check if the system users want to report a certain problem	(2013452,"has problem")	"Problem successfully reported"	NIL	
Check if the system users want to report a certain problem	(2087812,Null)	"please enter a valid user status"	User status should be a string a valid string of characters and null or digits are not accepted	We create a class InvalidInputException to detect status input errors and throw it to ask for input correction and a valid status is added

Change the id or credentials of system users	User.setid(2018878)	Id succesfuly set 2018878	NIL	
Change the id or credentials of system users	User.setname("User2")	user name is set to "User2"	NIL	
Change the id or credentials of system users	User.setname(Null)	Please insert a valid name	User name should be a valid string not digits or null	Place if statement that detects the type of the input name and the format is corrected
Change the id or credentials of system users	User.setphone(03123123)	User phone number is set to 03123123	NIL	
Adding user to the financial aid	**2017123**	**User 2017123 successfully added**	**NIL**	
Adding user to the financial aid	20171234	"Please enter a 7-digit id number instead of 20171234"	(id>7 digits) User won't be added among system users because only 7-digit id numbers are accepted for system users	We create a class InvalidInputException to detect such errors and throw it to ask for input correction and a valid id 7-digit number is added

Removing user from the financial aid	2017123	User 2017123 successfully removed	NIL	
Removing user from the financial aid	20171234	"Please enter a 7-digit id number instead of 20171234"	id>7 digits) User won't be removed among system users because only 7-digit id numbers are accepted for system users	We create a class InvalidInputException to detect such errors and throw it to ask for input correction and a valid id 7-digit number is added
Calculate the working hours of a user	(2017123, 10, 30)	20 hours	NIL	
Calculate the working hours of a user	(2017123, 30, 10)	-20 hours	It is not logic to obtain -20 hours	We add an absolute function Math.abs to always get a positive number
Absences record for a user	(2017123,10,5)	exceeded absence limit	NIL	
Absences record for a user	(1231231,10,5) 1231231 is an id not available in the university and the financial aid	exceeded absence limit	The system will still calculate to absences record even if the id it not available	The system has to make sure that this id is available in the financial aid
Check if the user has attended	(2017123,array)	attended	NIL	
Check if the user has attended	(1231234,array) 1231234 is an id not available in the university and the financial aid	absent	The system will state that user is absent regardless if the id is available or not	The system has to make sure that this id is available in the financial aid
Work tuition	(2017123,10000)	8000$	NIL	
Check if the application is accepted or declined	(2017123,array)	The application was accepted for this student	NIL	