Experiment No. 8

Aim: - Conduct Function Point Analysis(FPA) for the project.

Theory: -

The Functional Point Analysis (FPA) is a one of the most popularly used software estimation technique to measure the functional size of the software work i.e. It is a method or set rules to measure the amount of software functionalities and software size of the software developed product. It depends on logical view flow of the application i.e. the number of functionalities delivered to the users. The Functional Point (FP) is the measurement of functional size of the software application. When a new project comes to organisation, the organisation starts planning and estimation on that project in terms of schedule time, cost, resources, etc. The estimation process of software product includes the testing phase in terms of every functionality of the application, so the name shows functional point analysis. There are multiple parameters in functional point analysis process calculation. They

are as follows:

- External Inputs(EI)
- External Outputs(EO)
- External Inquiries (EI)
- · Internal Logic Files(ILF)
- External Logic Files(ELF)
- 1. External Inputs(EI): It is a elementary input parameter which is used in functional point analysis process when the input data's to the application are arranged from the external sources like input screens or business documents or external databases or external tables or files i.e. the inputs to the application from outside but within business criteria boundary.
- 2. External Outputs(EO): In this elementary process the processed data will be sent to the output in externally i.e. the generated response in terms of log reports or files. This report or files are used as an input for other application. The output screen or reports are examples of EO.
- 3. External Inquiries(EI): It is an elementary parameter, which provides relationship between input and output components to retrieve the response/output. The interrupts are the example of external inquiries.
- 4. Internal Logic Files(ILF): In this process the group of interrelated or logical data's are stored inside the system with related to the application standard. The input data's are processed by the application to stored in a file with logical structure. The database or directories are the examples of it.
- 5. External Logic Files(ELF): It is also known as external interface files where the group of logical interrelated external files are stored for reference purpose

and used by the software application. It is externally maintained to validate/get the data from that file. The shared database or shared systems are the examples of it.

Output : -

	Example of Function Point Analysis			
	No of user inputs	12	= rate hataugho to	tal.
	No. of user outputs	7 town	= (97) to a lawide	12
	No of user inquiries	2	. 3	6
	No. of files	30	7	210
	No of external files	0	002 t = 5.7 t 2000	AO
			Total Count	264
0	000 THA = 1			
001	Factors affecting are -			
	1. Backup & Recovery = 3 2. Data communications = 4 3. Distributed Processing = 4 4. Performance (ritical = 3			
	5. Existing Open	ironment = 4	3	
	8. Moster Files	updated	Online = 3	

Conclusion : -

Hence we have understood the implementation of Function Point.