PREFACE

Praise to God Almighty for His blessing in everything everlasting. This skripsi which title "The Difference of Pupils' Mathematical Problem Solving Ability Taught by Problem Based Learning and Project Based Learning using Autograph in Grade VIII SMP Negeri 2 Pagaran Academic Year 2017/2018" is a partial requirement of fulfillment after finishing a set of subjects in four year in State University of Medan.

During the process of the writing of this skripsi, I am indebted for everyone surrounding, for none in the writing process can be done without the involvement of them. Special thanks go to Dr. W. Rajagukguk, M.Pd as my Skripsi Supervisor who has provided guidance, and suggestion to the author since the beginning of the study until the completion of skripsi writing. Special thanks also go to Prof. Dr. Pargaulan Siagian, M.Pd, Dr. Elmanani M.Si, and Dr. Edy Surya, M.Si, who have provided input the suggestions from the research plan until complete the preparation of skripsi. Thanks go to Drs. Syafari, M.Pd as academic supervisor and also the entire Lecturer and Staff in Mathematics Department who have given astonishing service, care, and respect. Appreciation also present to J. Manurung as principal of SMP Negeri 2 Pagaran who has given permission to author do research, T. Pasaribu as mathematics teacher and all teacher, staffs and also the pupils in SMP Negeri 2 Pagaran who have helped author conducting the research.

Special thanks go to my beloved parents, Sihol Rumapea and Rupita Nababan who take care of me since I was born, and give me the chance to stand on my own feet through education; my beloved young sisters that always give me support and understand me in difficult thing when others don't.

Many thanks go to my best friends Susi Manullang, Lorisma Lumban Gaol, Haryanti Simanjuntak, Eka bukit, Susi Banjarnahor, Fitriyeni Hutabarat also my classmates in bilingual mathematics education 2013 for the valuable support and motivation.

iv

This Skripsi, of course has its own advantages and limitations. Building critics and suggestion are needed to improve the quality for this skripsi. The best wish is that this skripsi is useful for those who use this skripsi now and future.

Author,

Nova H Rumapea ID. 4133311015