COMPILER DESIGN

EXP 6 – Predictive parsing table

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<u>Aim:</u> To prepare the predictive parsing table of the grammar.

Language Used: Python

Procedure:

1. Create a python file

- 2. Take in the input of statements present in the grammar
- 3. Find the first and follow of each non-terminal.
- **4.** Prepare the parsing table matching the first and follow and write all the table entries.
- 5. Then print the table with first and follow and also mention all the entries in the predictive parsing table.

Code:

```
def parser(p_table,start_state):
    expr = list(map(str_inppt("Enter expression for prasing(Plz enter space between 2 entry)\n").split()))
    if expr[-1] l= '$';
        print("\n"Please add '$' at the end of expression. Try again")
        return
        print("\n"Please add '$' at the end of expression. Try again")
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        print("\n"Please add '$' at the end of expression. Try again population population
```

```
[ ] #import First_Follow_sets as ffs
    from collections import defaultdict
    from copy import deepcopy
    if __name__ == "__main__":

        rules,start_state=get_rules()
        firstSet = get_first_set(rules)
        followSet = get_follow_set(rules,deepcopy(firstSet),start_state)
        parsing_table = get_parsing_table(deepcopy(firstSet),deepcopy(followSet),rules)
        # parser(parsing_table,start_state)
# print(parsing_table)
```

Output:

Conclusion: Predictive parsing table for the grammar is prepared.