P = ['?*a', 'my', 'name', 'is', '?*name'], I = ['Hello', 'my', 'name',

'is', 'Arif', 'Ali', 'khan'], B = None

SV = a, SP = ['my', 'name', 'is', '?*name'], SI = ['Hello', 'my',

'name', 'is', 'Asif', 'Ali', 'khan']

SB = None

P = ['my', 'name', 'is', '?*name'], SI = ['my', 'name', 'is', 'Asif',

'Ali', 'khan'], B = {'a': ['Hello']}

body P = my, I = my, B = {'a': ['Hello']}

P = ['name', 'is', '?*name'], I = ['name', 'is', 'Asif', 'Ali', 'khan']

B = {'a': ['Hello']}

P = name, I = name, B = {'a': ['Hello']}

P = ['is', '?*name'], I = ['is', 'Asif', 'Ali', 'khan'],

B = {'a': [' Hello']}

P = is, I = is, B = {'a': [Hello']}

P = ['?*name'], I = ['Asif', 'Ali', 'khan'],

B = {'a': [Hello']}

SV = name, SP = [], SI = ['Asif', 'Ali', 'khan']

P -

P = [], I = [], B = {'a' [Hello'], 'name': ['Asif', 'Ali', 'khan']}

Final output

B = {'a': ['Hello'], 'name': ['Asif', 'Ali', 'khan']}

Q No 2

Sol :-

input : ['Fran', 'age', 'divided', 'by', 'Robin', 'height', 'is', 'one', 'half', 'of', 'kelly', 'IQ']
Rule : ['?*a', 'is', '?*b'], ['a', '=', 'b']
Binding : { 'a' : ['Fran', 'age', 'divided', 'by', 'Robin', 'height']
'b' : [one, half, 'of', 'kelly', 'IQ'] }

input : ['Fran', 'age', 'divided', 'by', 'Robin', 'height']
Rule : ['?*a', 'divided by', '?*b'], ['?a', '/?b']
Binding : { 'a' : ['Fran', 'age'],
'b' : ('Robin', 'height'] }

input : ['Fran', 'age']
output : ['Fran]
input : ['Robin', 'height']
output : ['Robin']
output : ['Fran', '/', 'Robin']

input : ['one', 'half', 'of', 'kelly', 'IQ']
Rule : [one, 'half', '?*a)], ['?*a', 'pa'], '/', '2']
Binding : { 'a', ['kelly', '10'] }
input : ['kelly', 'IQ']
output ['kelly']
output ['kelly', '/', '2'].
output ['Fran', '/', 'Robin', '=', 'kelly', '/', '2']

input : ['kelly' 'IO', 'minues' '30', 'is', 'Robin', 'height']
Rule ['T* a', ' = ', ' ?xb'], ['?a', '=', '?b']
Bindings { 'a' : ['Kelly', 'IO' 'minus', '30']
'b', ['Robin', 'height'] }

input ['kelly', 'IO', 'minus', '30']
Rule ['?xa', 'minus', '?xb'], ['?a', '-', '?b']
Bindings { 'a' : ['kelly', 'IO']
'b' : ['30'] }

input ['kelly' 'IO']
output ['kelly']
output ['kelly', '-', '30']

input [Robin height]
output [Robin]
output ['kelly', '-', '30', '=', 'Robin']

input ['Robin', 'is', '4', 'feet', 'tall']
Rule ['?xa', 'is', '?xb'], ['?a', '=', '?b']
Binding { 'Robin' '?a' : ['Robin']
'b' : ['4', 'feet', 'tall'] }

input ['Robin']
output ('Robin')
input ['4', 'feet', 'tall']
output ('4')
output ['Robin', '=', '4']

input	['how', 'old, 'is', 'fran']
Rule	['?&a', 'is'), ('?&b'], ['?a', '=', '?b']
Bindings	{ 'a' : ['how','old'],
	'b' : ['fran'] }

input	['how', 'old']
output	['how']
input	['fran']
output	['fran']
output	['how', '=', 'fran']

Out of Tralate to Expression Module

Unsolved Equation   First Call

1 [(Fran / robin) = (kelly / 2]

2 (kelly - 30) = Robin   Solved Equation

3 Robin = 4

4 how = Fran

]

selected → robin = 4

Isolated → robin = 4

Solve Arthemetic Substituted → robin = 4

Substitution ① and resursive call ②

Second call

Unsolved Equation	Solved Equation
[	[
fran / 4 = kelly / 2	robin = 4
(kelly - 30) = robin 4	]
Rob how = Fran	
]	

selected → (kelly - 30) = 4
isolated → kelly = 4 + 30
solve Arthematic → kelly = 34
subtitution and Recursive call

Third Call

unsolved Equations	Solved Equation
[	[
(Fran / 4) = (34 / 2)	(robin = 4),
~~34 = 300~~	(kelly = 34)
how = Fran	]
]	

selected equation → (Fran / 4) = (34 / 2)
isolated → fran · Fran = (34/2) * 4
solve Arthematic → Fran = 68.0
Subtitution and Recursive call &

Fourth call

Unsolved Equation	Solved Equation
[	[
how = 68.0	robin = 4
]	kelly = 34
	Fran = 68.0
	]

selected → how = 68.0
isolated → how = 68.0
Solve Arthematic → how = 68.0
Subtitution and Recursive call

Fifth Call

unsolved Equation	Solve Equation
[ ]	[robin = 4 kelly = 34 Fron = 68.0 fiow = 68.0]