Name:- Sumit Kumar Yadav

Roll No.:- 18 CS 30042

|| Assignment - 4

① The Symbol table has the following information about identifiers:-

i) Name

ii) Data type

iii) Block level

iv) Scope (global, local, parameter or temporary)

v) offset from the base pointer

vi) initial value (for global and local variables),
default value (for parameter)

vii) others (depending on the context)

②

TAC	op	arg1	arg2	result
$t10 = j + 2$	+	j	2	t10
$j = t10$	=	t10	null	j
$t6 = j * 4$	*	j	4	t6
$t1 = mrr [t6]$	=[ ]	mrr	t6	t1
if $t1 < arg$ goto G	<	t1	arg	G

③

Columns:

Name	Type	Datatype	Size

Global Symbol Table

x	var	int	4
f	function	int → void	0
g	function	int → int	0

f Symbol Table

m	parameter	int	4
x	var	float	4
y	var	float	4

g - Symbol Table

u	parameter	int	4
t	var	bool	1

i	var	int	4
j	var	int	4

x	var	int	4