

Name - PE 3 14 Payal Patil
 Name - PE 16 Vaishnav Salunke
 Name - PE 30 Sakshi Patil
 Name - PE 29 Vasu Kalariya
 Group No. 11

Q1. Start 100

READ R.

MOVER BREG = '6'

MOVEM DREG = B.

MOVER CREG = '8'

MOVEM AREG, C.

comp CREG, R

Bc EQ; 5

LDRG.

MOVER DREG = '8'

MOVER AREG = '7'

MOVEM DREG, D.

MULT AREG, D.

MOVER CREG = '5'

LDRG.

PRINT D

STOP

~~pooltab[1] = 1~~

D DS 1

R DS 10

B DS 5

C DC 3

END.

pooltab[1] = 1

pooltab[2] = 3

Initialize ~~the~~ -

loc - cnt = 0, pooltab - ptr = 2.

pooltab[1] = 1, litlab - ptr = 1

symb.

1. Symbol table.

id	name	address	length
1	k	120	10
2	B	130	5
3	C	135	1
4	S	112	1
5	D	119	1
6			

2. Literal table

litno	literal	address
1	= '6'	107
2	= '8'	108
3	= '8'	114
4	= '7'	115
5	= '5'	116
6		

Intermediate code.

loc. cntr	Mnemonic	Operand 1	Operand 2.
-	(AD, 01)	-	(C, 100)
100	(IS, 09)	-	(S, 1)
101	(IS, 04)	2	(L, 1)
102	(IS, 05)	4	(S, 2)
103	(IS, 04)	3	(L, 2)
104	(IS, 05)	1	(S, 3)
105	(IS, 06)	3	(S, 1)
106	(IS, 07)	3	(S, 4)
107	(AD, 05)	-	006
108	(AD, 05)	-	008
109	(IS, 04)	4	(L, 3)
110	(IS, 04)	1	(L, 4)
111	(IS, 05)	4	(S, 5)
112	(IS, 03)	1	(S, 5)
113	(IS, 04)	3	(L, 5)
114	(AD, 05)	-	008
115	(AD, 05)	-	007
116	(AD, 05)	-	005
117	(IS, 00)	-	(S, 5)
118	(IS, 00)	-	-
119	(DL, 02)	-	(C, 1)
120	(DL, 02)	-	(C, 10)
130	(DL, 02)	-	(C, 5)
135	(DL, 01)	-	(C, 3)
-	(AD, 02)	-	-

Q2.

MDT

MNT

id	instruction
1	START 100
2	SR 2,2
3	USING *,15
4	MACRO XYZ & AR41
5	ADD 1,1#1
6	AR 2,2
7	MEND
8	ABC & Z
9	SR 3,3
10	MACRO
11	DISPLAY
12	XYZ B
13	MEND
14	LOAD 1, #2
15	MEND

MEND
XYZ B1
SR 4,4
ABC B1
D1 DC, = '4'
B1 DC, = '5'
END

id	macro name	MNT index
1	XYZ	1
2	ABC	5
3	DISPLAY	13

ALA

id	dummy org	actual org
#1	& AR4	B1
#0	& Z	B1

O/P file

START 100
SR 2,2
USING *,15
LOAD 1,D1
ADD 1,B1
AR 2,2
SR 4,4
LOAD 1,B1
D1 DC, = '4'
B1 DC, = '5'

SSC Active Learning

03:10

Participants

Type a name

Share invite

In this meeting (4) Mute all

- VK Vansu Kalariya Organizer
- PP Payal Patil
- SP sakshi patil (Guest)
- VAISHNAVI SALUNKE

Suggestions (1)

- SP SAKSHI PATIL

PP

Payal Patil

SP

VK

VAISHNAVI SALUNKE

sakshi patil (Guest)