

Name :

M. UMAR AZIZ

Roll No :

L1F22BSCS0277

SECTION :

G-05

SUBJECT

Compiler Construction

ASSIGNMENT

NO 1

INCOMPLETE

1) Language Overview :-

- Language name : Al-Noot (ﻻ-نوٰٹ)
- Theme: Arabic language culture ; They keywords are derived from clear and basic arabic (Roman Arabic)
- Purpose: A simple, strongly typed scripting language for basic programming tasks . feel natural to the people who speak or can speak arabic -

2) Keywords:-

Following is The list of keywords use in Al-Noor -

<u>Keyword</u>	<u>Meaning / Equivalent</u>	<u>Example</u>
1. sagam	int	sagam a = 12;
2. aaim	float	aaim b = 12.5;
3. haaf	char	haaf c = 'C';

4. <u>Sahih</u>	bool (boolean)	Sahih al_natiqa = true;
5. LaShay	void (no return)	Dalla [↳] LaShay al_func() {}
6. Dalla	def (function def)	Baqam Dalla al_kishab()
7. in	if	in(x>9) {}
8. walakin	else	* walakin {} - {}
9. waIn	else if	in() {} waIn {} walakin {} - {}
10. ikhtiyar	switch	ikhtiyar (-) {}
11. mithla	case	ikhtiyar (-) {} mithla 'a' {} - {}
12. Daruri	default (necessary)	Daruri {}
13. haythuma	while	haythma haythma (x<2) {}
14. bimiq'dar	for()	bimiq'dar (_____) {}
15. ifal	do	ifal {} haythma() {}
16. qaf	break	qaf;
17. istimsa'	continue	istimsa';
18. raji'	return	raji' o;

3) Operators and Punctuations:

<u>Category</u>	<u>Symbol</u>	<u>Description</u>
operator	+	Addition
operator	* -	Subtraction
operator	*	Multiplication
operator	/	Devision
operator	++	Increment
operator	--	Decrement
punctuation	;	Terminator of statement
punctuation	{	Start of block
punctuation	}	End of block
punctuation	(,)	Start and end of group expression

4) Regular Expressions

identifier	$[a-zA-Z][a-zA-Z0-9-]$	variable names, a - b, ab etc
integers(decimal)	$\cdot [0-9] [0-9]^*$	400, 200.1
float	$[0-9] \cdot$	

integers	$(+ -)? [0-9]^+$	+16, 16, -16, 0
float	$(+ -)? [0-9]^+ \cdot [0-9]^+$	16.1, -16.1, 0.01
Character	' . '	'a', 'A', 'g'
Punctuation	((() {} {} ;))	{, }
keyword	(begin aim half Lashay Dall in wakin waIn ikhtiyar mithla darwi haythum ifal bimiqdar)	in, mithla
operators	(+ -) # * ++ --)	