DAY-9[LANGUAGE FUNDAMENTALS]

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TOKEN: LEXEME are the smallest element of the program.collection of lexemes under particular group is called as TOKEN.

TOKENS are classified into five types:

1.keyword

2.identifiers

3.literals

4.operator

5.special symbols

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1.KEYWORD:

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If any predefiend word is having both word recongnization and internal functionality then that word is called Keyword.

ex: byte,int,class,try......

Incase only word recongization is present and no functionality then such words are called as Reserved Keywords

ex: goto,const

NOTE:

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--> void : In java return type is mandatory if a method wont return anything then we have to declare the returntype as void

observations:

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all the keywords are present in lowercase only.

only alphabets are used.

strictfp,assert,enum are the new keywords added to java.

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2.IDENTIFIERS:

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Identifiers are the name given java for identification.It can classname,methodname,variablename,interfacename,labelname.

Rules to be fallowed while creating a identifier:

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RULE1.An identifier can be created using alphabets (a-z)(A-Z).

ex:1

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Ident1.java

class Ident1

{

public static void main(String[] args)

{

int age=25;

int AGE=25;

int Age=25;

System.out.println(age); -->valid

System.out.println(AGE); -->valid

System.out.println(Age); -->valid

}

}

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RULE2:Only special character $ and \_ is allowed.

eg:1

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Ident1.java

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class Ident1

{

public static void main(String[] args)

{

int $age=25;

int AGE\_age=25;

int A$g\_e=25;

int age@Age=25;

System.out.println($age); -->valid

System.out.println(AGE\_age); -->valid

System.out.println(A$g\_e); -->valid

System.out.println(age@Age); -->invalid

}

}

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RULE3: Identifiers should not starts with digits.

eg1:

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Indent1.java

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class Ident1

{

public static void main(String[] args)

{

int age25=25;

int A25ge=25;

int 46Age=25;

System.out.println(age25); -->valid

System.out.println(A25ge); -->valid

System.out.println(46Age); -->invalid

}

}

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RULE4: Keywords can not be used as identifiers.

eg1:

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Ident.java

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class Ident1

{

public static void main(String[] args)

{

int age=25;

int while=25;

int try=25;

System.out.println(age); -->valid

System.out.println(while); -->invalid

System.out.println(try); -->invalid

}

}

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RULE 5: NO space in between the identifiers.

eg1:

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Ident.java

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class Ident1

{

public static void main(String[] args)

{

int student$age=25; -->valid

int student age=25; -->invalid

int student\_age=25; -->valid

System.out.println(student$age);

System.out.println(student\_age);

}

}

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