JAVA SYNTAX

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JAVA Variables
       Datatype variablename;
Example:
       int a;
       String b;
       float c;
       double d;
       char e;
Syntax for importing a package:
       import packagename;
Example for importing a package:
       import java.util.*;
       import java.io.*;
       import java.util.regex*;
       import java.nio.*;
Syntax for creating a class
       class Name_Of_The_Class
              public static void main(String args[])
              }
Syntax for creating an object
       classname objname=new classname();
Decision Making Statements
       If Condition
              Simple if
              If-Else
              If-Else Ladder
              Nested If
       Switch Statement
```

```
If Condition Syntax:
       if(condition)
              //Statements to be executed;
Example for Simple if Condition
       if(a>0)
       {
              System.out.println("Positive Number");
If-Else Statement Syntax:
       if(condition)
              //Statements to be executed
       else
              //statements to be executed
Example for if-else statement
       if(a>0)
              System.out.println("Positive Number");
       }
       else
              System.out.println("Negative Number");
       }
Else if ladder Statement Syntax:
       if(condition)
       {
              //statements to be executed
```

```
else if(condition)
               //statements to be executed
       else if(condition)
       {
              //statements to be executed
       else
               //statements to be executed
Example for else if ladder statement:
       if(a>b)
               //statements to be executed
       }
       else if(b>c)
               //statements to be executed
       else if(a>c)
              //statements to be executed
       }
       else
```

```
//statements to be executed
Nested If Statement Syntax
       if(condition)
       {
              if(condition)
Example for Nested if statement
       if(a>0)
              if(a\%2==0)
              }
Switch Statement Syntax
       switch(expression)
       {
              case 1:
                      //statement to be executed;
                      break;
              case 2:
                      //statement to be executed;
                      break;
              case 3:
                      //statement to be executed;
                      break;
```

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.
default:
//statement to be executed;
}
```

Example for Switch statement

```
switch(a)
       {
              case 1:
                      //statement to be executed;
                      break;
              case 2:
                      //statement to be executed;
                      break;
              case 3:
                      //statement to be executed;
                      break;
              default:
                     //statement to be executed;
       }
Looping Statement
       Do-While Loop
       While Loop
       For loop
```

```
Do-While Loop syntax
       do
       {
              //statements to be executed;
       }while(condition)
Do-While Loop Example
       do
              //statements to be executed;
       }while(a!=0)
While Loop syntax
       while
              //statements to be executed;
       }
While Loop Example
       while(a!=0
       {
              //statements to be executed;
       }
For Loop Syntax
       for(initialization;testcondition;increment/decrement)
       {
       }
For Loop Example:
       for(i=0;i<10;i++)
       {
              //statements to be executed;
```

```
Syntax for creating functions
       returntype functionname()
       {
              //statements to be executed
       }
Example for creating a function
       void getdata()
              //statements to be executed;
Syntax for creating constructor
       classname()
              //statements to be executed
Example for creating constructor
       class Student
              Student()
                      //statements to be executed;
              }
Syntax for deriving a class
       class derived class name extends base class name
Example for deriving a class
       class Student
```

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}
       class Exam extends Student
      }
Syntax for Overloading a function
              void function_name()
              void function_name(arguments)
Example 1 for Overloading a function
              void getdata()
              void getdata(int a)
Example 2 for Overloading a function
              void getdata()
              int getdata()
Example3 for Overloading a function
              void getdata()
```

```
void getdata(int a)
Syntax for creating a generic class
       Class Name_Of_The_Class<GenericType>
       {
       }
Example for creating a generic class
       Class Student<T>
Syntax for creating a static variable
       static datatype variablename;
Example for creating a static variable
       static int a;
Syntax for creating a static class
       static class Name_Of_The_Class
Exxample for creating a static class
       static class Student
       }
```