	I	
orientation		
software installation		
software setup		
basic computer memory management		
positive number to binary conversion		
negative number to binary conversion		
binary to decimal conversion		
sign bit		
sign bit reverse conversion		
Prctice problem		
Ram analogy		
how data store in ram (diagram representation)		
memory management of java		
data type		
primitive data type		
calculation of range and size of byte		
calculation of range and size of short		
calculation of range and size of int		
calculation of range and size of long		
calculation of range and size of float		
calculation of range and size of double		
how data store in ram (code representation)		
why byte and short has 32 bits weather they have	only 8 any 16 bit	size
how a big number can stroe 32 bits		
IEEE754 32 bit representation and calculation for f	loat	
IEEE754 64 bit representation and calculation for d	louble	
Variables		
rules for variable naming		
Local variable		

Memory representation of a local variable	
type casting	
practice problem	
operators	
type of operators	
unary operator	
binary operator	
airthmatic operator	
assignment operator	
Relational operator	
Logical operator	
Bitwise operator	
shift operator	
if statement	
flow chart of if	
else if statement	
flow chart of else if	
ladder if else statement	
flow chart of ladder if else	
nested if	
flow chart of nested if	
combination of different control statements	
practice problem	
ternary operator syntax	
Replacement of if statemnet with ternary operator	
Practice problem	
Method and function	
method creation syntax	
Parameters	

Passing parameters by value			
return data type			
void key word			
method calling			
arguments			
rules for Parameter and arguments			
basic practice for method creation and calling			
static method craetion and calling			
method representation of stack daigram			
method inside method representation by stack dai	gram		
class			
class inside class (sub class)			
class out side class(user define class)			
rules for creation of sub class and user define class			
static method calling from two different classes			
static method calling from subclass to main class			
object in java			
creation of a blank object in java			
creation of multiple objects			
refrence variable			
memory representation of a refrence variable			
control flow of stack of method			
object and refrence variable representation at hea	p and stack		
filling data member at object			
Instance variable			
Memory representation of a instance variable			
default constructor			
prameterized constructor			
why constructor is a special method rules to create a default constructor			

difference between defeath construction and consum		
diffrence between default constructor and param		cor
Accessing instance varaibale of an instance or object		
calling a non static method using a refernce variable		
calling a non static method from another class into main class		
code to daigram (control folw of interpreter)		
daigram to code (control flow of interpreter)		
Switch		
flowchart of switch		
While loop		
do while		
for loop		
nested for loop control		
control flow of for loop and nested for loop		
break		
continue		
Patterns		
square pattern		
right half pattern		
reverse right half pattern		
left half pattern		
reverse left half pattern		
k pattern		
triangle pattern		
mirror image pattern		
hollow pattern		
hollow reverse pattern		
daimond pattern		
hollow daimond pattern		
hour glass pattern		

hollow hour glass pattern	
square hollow	
number triangular	
number increasing triangular	
number increasing reverse pyramid	
number changing	