01)

[a].Everything in java is associated with classes and objects

along with is attributes and methords ,for example ;

in real life a car is an object .the car has attributes

such as weight and color seats ,and methods such as drive ()

,reverse(),park(),brake();

\*\*the class is a bloack that the System need to keep

comon features.

[b].i)An object an instance of the class.object store data

and provides method for accessing and modifying this data.

ii)A class like an object counstructor or a "blue print " for

creating objects.

iii)the OBJECT is a thing /,in Real world thing in System.

[c] A method is a block of code which only runs when it is

called .

you can pass data known as parameters into a

method.

methords are used to performe certain action ,

and they also known as functions .

[d] A car has attributs such as doors,seats ,colours,seats,.

or you could say that class attributs are variable within

class.

[e] The only way you can access an object is through

a reference variable .

a Reference variable is declared to be of a specific type

and that type can never be changed.Reference variable

can be declared as [static variable,instance variables,

methord parameters,or local varible.

[f] When a variable containt data it self ,then the variable is

called prmitive variables.

ex :a=2

Name of memory location(variable) a and value

Stored in that location is 2;

[g]

[h]thease are declared in methord or methord parameters

[i]

02)D

03)A

04)For example in real world a car is an a object .

the car has colour /seats/tyres thease are attributes/

propeties of the car and car has methord/functions/

behaviours/actions like drive,reverse ,park,brake.

05)

line 2

line 3

line 4

6)

Volume of the Box 0

Length of Box0

Width of Box0

Height of Box0

7)

Volume of the Box 180

Length of Box12

Width of Box5

Height of Box3

8)

Default constructor

Length of box:2

width of box:2

height of box:2

\*we can create the default constructor explicity

and pass desire values to attributes of the

instance directly through the constructor

when we are creating an instance ;

9)

Parameterized constructor

Volume60

Parameterized constructor

Volume180

\*A paramiter whch has specific number of parameters

is called a paramiterized constructor.

10)

we Cannot assign assign values to attributes on

another line after declaration of the attributes.

11)

the main purpose of a constructor is to inialize

the instance variables a class.

12)

13)A,C,B

14)line 2,3 compile error

15)1 2 3 4

16)A

17)

100 101

0 0

\*After the adress is equalized ,a1 also refering the

adressof a2,and the instance a1 is remove from the heap by

garbage collector;

18)

Code:3001

19)

Code:2001

20)B,C,D

\*a is not compile becouse there are no areguments

21)

line 01-create a reference variable type customer(c1)

line 02-create an Object type customer;

line 02-call method of printCustomer ;

line 04-create a reference variable type Custmer c2;

line 05-create an object type Constructor;

line 06-pass String type pramiterlized Constructor;

line 07-called method;

line 08-create a reference variable type customer(c3);

line 09-create an Object type customer;

line 10-pass String type pramiterlized Constructor;

line 11-pass String type pramiterlized Constructor;

line 12-called method;

22)

A

C

D

23)

compile error at line 2.

24)

Encapsulation in java is a process of wrapping code

and data together into a single unit ,for example:

capsule which is mixed in several medicine;

\*protecting data

\*hiding data

\*

26)

public class Demo

{

public static void main(String[] args)

{

Date d1=new Date();

d1.setDate(2020,1,7);

d1.printDate();//1970-1-1

d1.setYear(2016);

d1.setMonth(5);

d1.setDate(31);

System.out.println("Year:"+d1.getYear());

System.out.println("Month"+d1.getMonth());

System.out.println("Date:"+d1.getDate());

}

}

public class Date

{

int year;

int month;

int day;

public void setDate(int x,int y,int z)

{

year=x;

month=y;

day=z;

}

public void printDate()

{

System.out.println(year+"-"+month+"-"+day);

}

public void setYear(int y)

{

this. year=y;

}

public void setMonth(int m)

{

this. month=m;

}

public void setDate(int d)

{

this. day=d;

}

public int getYear()

{

return this.year;

}

public int getMonth()

{

return this.month;

}

public int getDate()

{

return this.day;

}

}

27)

A

28)

E

29)

line 1,3,7

compile error

30)

Line 8

|  |
| --- |
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