Examination End Sem

Name: Aman Yadar

emoll: GGV/20/05105

Course: B.Sc. C& 2 nd Sem

Roll no- 20207005

Sub! Programming in Java

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Section B

Answer No-2

Security: Lecuity is an important issue for all programming longuage which is used on int - ermet. Threat of visers and abuse of resource are every where Jana Eystem not only verify all memory access but also ensure that no visus are communicated with an applet, the obsence of pointers in java ensure that program can't get access to memory location without authorisation,

JDK - Java development kit comes with collection of tode that helps in developping and running of program.

Lincludes -

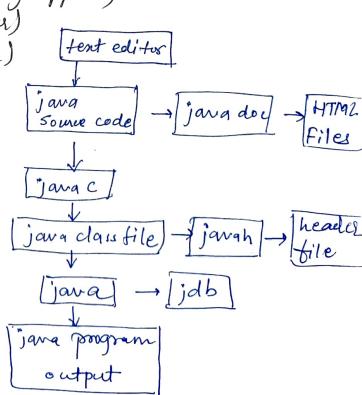
1. appliet viewer (for viewing applet)

2. java C (Java Compiler)
3. java (Java interpreter)
4. java p (diassembler)
5. java h (for cheader)

B. janaduc (for html)

7. jdb (debugger,

process of building and running jova app. poro.



Ans NO- 3

Comparison

from

while

O while (condition) {

statements;

//body of loop

/

chui'ves

@ in while loop the controlling condition appears at the start of wop.

iteration

3. The iferation do not occur if the condition appear false.

secondname

4. Entry controlled loop olso known.

efficient.

5. semi colon not used at end,

Switch

10 Statement will be executed is decided by uses.

2.5witch statement use single expression for multiple choices

3. Swiften Statement cheeks only for equally

4. Swillh statement evalutes only char or int value

5. it is eary to edit switch ease as they are recognized carily

Ans NO-5

scammed is a class in jourg with package and for obtaining of the input of primitive types like int, doubles, etc. and string. It is easiest way to read input in java prov. It is not efficient if you want an input method for scenario. Where fime, is constanint.

public class Main {
public static void main (String[] angs) {

import java util Scanner; public claus Main { public startic void main (string!) augs) {

```
3
```

```
Scammer Sc = new Scannel (Bystem:in);

Eystem:ont:puintln ("Enter three number to add");

int a = sc. nextInt();

int c = sc. nextInt();

int d = a+b+c;

Eystem:out:puintln ("Sum is"+d);

}

eutput: Enter three number to add

2
3

Sum is 6
```

Ans No-7

1. This can be used, to access hidden attribute of class within the construtor or within the method such as this a mod so on.

To call a constructor in some other constructor of same class, such an this (p1), this (p1, p2).

```
class A {
    int x1=10;
    int x2=20;
    int x3=30;
    A() {
        // defaut constructor.
    }
```

```
A(12 71) {
    this. x 1 = x1;
 A (int 21, int 22, int 23) {
    this (a, , 22);
    this. (23) = 23;
A (Int 21, int 22) }
     this (x1);
      this. 22 = 22;
4
roid display () {
   Eystem, out. Minth (x1);
   System out portnern (2);
   System out printly ( 23);
public class B }
   public state void main (string (7 ag)?
          A 061= new A();
             0 b/. display(),
           A062 = new A130);
             062. display();
           A 063 = new A (40,50);
               063. display ();
           A 054 = new A (60, 70, 80);
              ob4 display ();
                             60
                       40
                                    Call are in vertical
               30
                              70
                       50
               20
```

Method overidding. I method which have same name but in two different class.

2. When object of subclass is created and overside method is called then the method which is implemented in subclass is called and encented

class vehicle {

void horn () {

System out println ("pep peep");
}

class Scooter entends vehicle {
Noi'd horn () {

System out println (" beep boop, gor.");

public class Main {

public static void main (String[] aug) {

veluicle v = new veluicle();

Bike b = new Bike ();

Scooter s = new Scooter ();

6

v. horn ();
b. horn ();

s. hom ();

}

output! per peep Bike beep beep boop grr....

Ans NO - 10

Dinterface is basically a kind of class. it contain only define only abstract methods and final fields, i.e. no code implementation in these method and data field it can also contain constants, we have to implementation, lementinclass to define code for implementation,

2. an interface is emplicitly abshact.

3. each method is also implieitly abstoret.

4. and methods are implicitly public.

5. a clas com inherit trom j'aut one superclass but implement multiple interface,

interface animal?

public void eat();

public void sound();

}

class Dogs implement oning

clars Dog implement ominal {

public void eat(){

Bystem.out.println("om nom om");
}

(F)

public void end(){

System.out.println("Bark");

public class Main {

public static vaid main (String[] arg,) {

def d1 = new def();

d1.eat();

d1.somd();

output: om nom om Bark

Ans No-13

multi'threading—oit is a program concept in which a program of, or a process is divided into two or more subprogram or three ad that are enscuted at the same time in garallel.

Fact of programs simultaneously. A thread is small unit in trultithreading. Helps in developing efficient programs.

class x implements Runnable & public void run() {

for (int i = 1; ix=10; i++){

```
System.out. wintln ("\t Thread X" +1);
  System.out. println ("End of thread");
     Runhabletest ?
     public static void main (String[] ay) {
            * sunnable = new X();
          Thread thread X = new Thread (numable);
             thread X. start();
           Systam.out. Minthn ("End of main thred");
output:
         End of main thread
          Thread X: L
          Thread x 12
          thread x 1.3
          Thread X: 4
          Thread X:5
          Thread x 1. 6
          Threat X:7
         Thread X: 8
          Thread A: 9
         Thread X 110
       End of thread X
```

```
flow layout raanager:

flow layout manager is a defaut layout manager
it work like how tent is arranged in a tent
editor. we can assign the tent a particular
direction and tent is alligned based on direction
eg.—
import java. aut. Frome;
import java. aut. Label;
```

import jang. aut. Flowlayout)

public class flowlayout Demo?

public Howlayout Demol)?

Frame frame = new Frame();

Labell label1 = new Lable("One");

Label label2 = new Lable ("two");

Label label8 = new Lable ("three");

frame. add(label1);

frame.add(label2);

frame.add(label3);

frame. setLayout (new flowLayout (FlowLayout. CENTER));

frame. set Size (400,100); frame. set Visible (toue);

public startic void main (3 tring[7] ang) {
new FlowLayout Demo();

to modify allign me toamé. setLeyout (new Flowlayout (Flowlayout-LEFT)

one two three

Answer 20-16

sewing is also a GUI toolkit that taillatates the creation of highly interactive COII application, thowever, swing packages has much more flexibility and sobustness when it comes to implementing aquical compo, swing will alway generate of moleky in order type of output irrespective of moleky in platform platform,

20 me key swing classes are

JApplet: an entension for applet class

entrension for gova aut. Frame class, help to realize push button. I frame:

JBUHOn:

Components.

children of Jeompomen class. components are cuo, some components

1. Jslider

2. Table

D'There are total 45 components + containes

3. J Viewport

4. JTooltip

50 J Hist

1. Symbonization -

thread use their own data and method provided inside their sun() method, when we try to use methods outside themselve. They compete too same resource one thread may try to read a reesol from a file while another is still writing the same file. To over come this problem jour enable us to use a technique known as Synthonization keyword - Sychronized

2. Antoboxing:— converting a primittue value into om object of corresponding urappu down is called autoboxing, for en. ormert int to Integer class.

applies - 1 passed as param, to objected.

evoque class.

Ans NO-1

(1) (1)

(ii) (c)

(iii) (b) method declaration

(10) (b) paint()

(~) (c)

Am No - 4

character refer to a single letter, number, space, punituation much of a symbol that represent using a comp. while string refer to set of character of character of the string s: 'character';

Ans No - 9

Access modifiers help to determine the wisibility control of method and function over other clauses of same package.

access modifies

O. public access it is wisible to entire clay, and also visible to autisday of class.

eg. public int number;
public vold sum() {....}

- a. private: there are only accessible in same class
- 3. protected. Its access is available to the same packages subclause members.

D'ésible in other pourage but défautt allow them to give access.

An No-19

an applet is any small application that perform one specific task that lun within the scope of dedicated widgel engine on a larger program often en pluging