Midterm Java -





Q1. y = 10 , s = "sggs"

a)Integer.rotateLeft(y,3)

$9 ==> 80

here , binary representation of y is left shifted by 3.

b) s == (String)sggs

==>true

Here, String "sggs" is again typecasted into string it wiil remain same.

c) y+(y=17)

==>27

10 + 17 = 17

d) y = Integer(25)

gives error

we cannot directly pass value into the constructor.

e) short(9042024)

==> -1944

here,we are explicitly typecasting the number

Q2. a)ex: class SGGs{

p.s.v.m(){

}

}

while executing if we give wrong class name as java sggs then following error occurs.

b) String s = "sggs ;

for given initialization of string error unclosed string literal is obtained.

c) The error "array required but string found" occurs when we try to treat a string as an array, usually by attempting to access it with array indexing syntax.

eg: String s ="sggs" ;

s ==> "sggs"

Char ch = s[0]

Q3 . void main(){

System.out.println("Hello world");

}

we can run the following code as c code by using given commands -

javac --release 21 --enable preview prog\_name.java

java --enable -preview prog

Q4. a) following code gives error as recursive constructor invocation.

As when new object is created the two constructors call each other recursively.

b) Output ==> Examination: Mid

Here, exam.concat is not stored in exam therefore concatenation is not printed.

c) Here, compilation is done but program shows stackoverflowerror.

Q4. d) Static block 1:EXAM

Static block 2:EXAM

Static Block 1:MidTERM

Static Block 2:MIDTERM

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Init Block:EXAM

EXAM Constructor

Init Block:EXAM

EXAM Constructor

Init Block:MIDTERM

MIDTERM Constructor

MiDTERm

Here, static block is executed before the main method as soon as the class is loaded into the memory.

Init block is executed when object is created and then the constructor is executed.

Q5. Here, three string objects are created. str1 for Mid , str2 for Term where new keyword is used and str5 for Term again as new keyword is used