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MID-Term

Q.1)

a) Rotate left first converts decimal to binary

10=1010

Now shifts bits by given integer 3 towards left and add 0 as remaining bit

Sow now it will look like

1010000

1010000=80

Output=80

b) true

== operator acts as comparing operator

Therefore it returns true

c) y+(y=17)

10+(17)

10+17

27

d) Error:

| cannot find symbol

This error is caused because system is taking Integer(25) as method so it is giving error

e) (short)9042024

=>9042024/(2^16) = 137

137\*(2^16)=8978569

9042024 -8978569 =63455

63455-(2^16) = -1944

Q.2)

a)

This type of error is caused when the Class is not declared or does not not exit sill used

Class pruthvi

{

public static void main(String[] args)

{

System.out.println("Hello, World!");

}

}

If this program is run by Sample class name this error will happen.

b) This error will happen if string parantheses are open

class midterm{

public static void main(String[] args){

String s= “sggs;

System.out.println("Hello, World!");

}

}

c) This error is occurred when String characters are tried to accessed like array

class midterm {

public static void main(String[] args) {

String pruthvi = "Hello, World!";

char Character = pruthvi[0];

System.out.println(Character);

}

}

Q.3)

--release 21 –enable-preview Sample.java

–enable-preview Sample

Hello World

Q.4)

a) Output

Error: recursive constructor invocation

This statements will cause infinite loop so system will give this error

It is runtime error ,compile time error.

b) Examination:Mid

Strings are immutable in java so string exam will not be modified

Hence this output only Examination:Mid.

c) Stackoverflow error

it compile but can’t work .it is run time error .

d)

d)

Static Block 1: EXAM

Static Block 2: EXAM

Static Block 1: MIDTERM

Static Block 2: MIDTERM

Welcome To Mid Term Examination

Init Block: EXAM

EXAM Constructor

Init Block: EXAM

EXAM Constructor

Init Block: MIDTERM

MIDTERM Constructor

MidTerm@123a439b

Justification:

1)first father static block is printed then child .

2)main body block printed

3)object is created then init block of exam is printed then constructor of exam

4)object of midterm is created then first init and constructor of exam is printed then midterm init and constructor is printed.

5)tostring is printed.

Q.5)

3 objects will be created

1st object at str1

2nd at str2

3rd at str 5 new keyword is used so object is created

No object will be created for str 3 is copy of str 1.

Also object created for str4 becouse str4 is copy of str2.

Str4 have same address as a str2.