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ISE – 1

Q.1)

a)Under what circumstances does the "variable might not have been initialized" compilation error occur?

Ans: 1)When we use local variable without assigning any value before use.then we get this error.

int x;

System.out.println(x)

2) If you conditionally initialize a variable within a code but the condition might not be met compiler might still flag it as potentially uninitialized

int x;

if(condition){  
 x=10;

}

System.out.println(x);

Q.1)

b) Assuming the given registration number "2024bit025" is a valid registration number. How can one determine if it belongs to the IT department, assuming the code for the IT department is 'bit'? Provide an alternative method from the String class for checking this without using the charAt() method and explain how to utilize the alternative method in short.

Ans :

We can use substring method of String class.

Index number of “bit” is 4 to 7.

First create one String s = “bit”.

It compare with the substring . substring having beginning index 4 ending index is 7.it give “bit” substring form bigger string. And compare with s .if it is true then registration number form IT Department else not.

Q.2)

A)What is the significance of the static keyword?

Ans:

Static keyword is use for to store some data in main memory (ram).

It can access without object.and also using object.

Static keyword is use for to assign some memory for variable.

In java program public static void main(String args[]) we use for assign memory for main method to execute the program.

Q.2)

B) Determine the output of line 6 and line 8 in 12 the following code snippet. Clearly indicate errors, if any, or output printed with proper justification. Without justification, no marks will be awarded.

Ans :

In 6 line :

Output: null

Justification : we initialize the String using Integer it give null String of object jp

In line 8 :

Output : -24

Justification:

2024 /256 = 7

7\*256 = 1792

2024 -1792 = 232

232 -256 = -24