

Q.1]

a) jshell > int a = 'A'; a+4

→ output : 69

int a = 'A'

a ==> 65 (ASCII value A = 65)

a+4

65+4

69

b) Assume a=5

jshell > -a-++ a+-- a

→ output : -6

-a-++ a+-- a

- (5) - 6 + 5

-5 - 6 + 5

-6

c) jshell > String b = "A\tb c\s d"

jshell > b.replace (" ", "");

→ output : "A\tbcd"

String b = "A\tb c\s d"

b ==> "A\tb c d"

(A + tab + b + space + c + space + d)

b.replace (" ", "")

"A\btbcd" → space will remove from b

d) jsshell > Byte.SIZE + short.SIZE / short.Bytes

output → Error

java is a case → sensitive

Short.Bytes → compile-time error

short.BYTES.

Q. 27

a) class pattern {

 static void pointPattern (int n)

 String ch = "X";

 String sp = " ";

 if (n%2 == 0){

 System.out.println ("The entered value" +

 n + " is not odd. Please enter an

 odd size");

 return;

}

 for (int i=0 ; i<n ; i++){

 int leftSpace = Math.min (i, n-i-1)

 int middleSpace = (n-2) * leftSpace - 2;

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```
*****  
if (middleSpace < 0){  
    System.out.println(sp.repeat(leftSpace) + ch);  
}  
else {  
    System.out.println (sp.repeat(leftSpace) + ch +  
        sp.repeat(middleSpace) + ch);  
}  
}  
}  
}  
}  
public static void main (String [] args){  
    pointPattern (5);  
}  
}  
}
```

b) (short) 5022026

large int \rightarrow short

short \rightarrow size: 16 bits

range : -32768 to 32767

5022026 is outside the range

result = value % 65536

$\hookrightarrow 32768 + 32768$

65536

$2^{16} = 65536$

5022026 % 65536

41290 > range

RAJ MUDR

41890 - 655366

- 24, 246

jshell > (short) 5022026

\$ 1 ==> - 24, 246

c) → No, isBlank() cannot always be used
as a replacement for isEmpty().

isEmpty(): returns true if string length == 0

isBlank(): returns true if string contains
only whitespace.

String a = " " ;

String b = " " ;

System.out.println (a.isEmpty()); // true

System.out.println (b.isBlank()); // true.