

Java String Part1



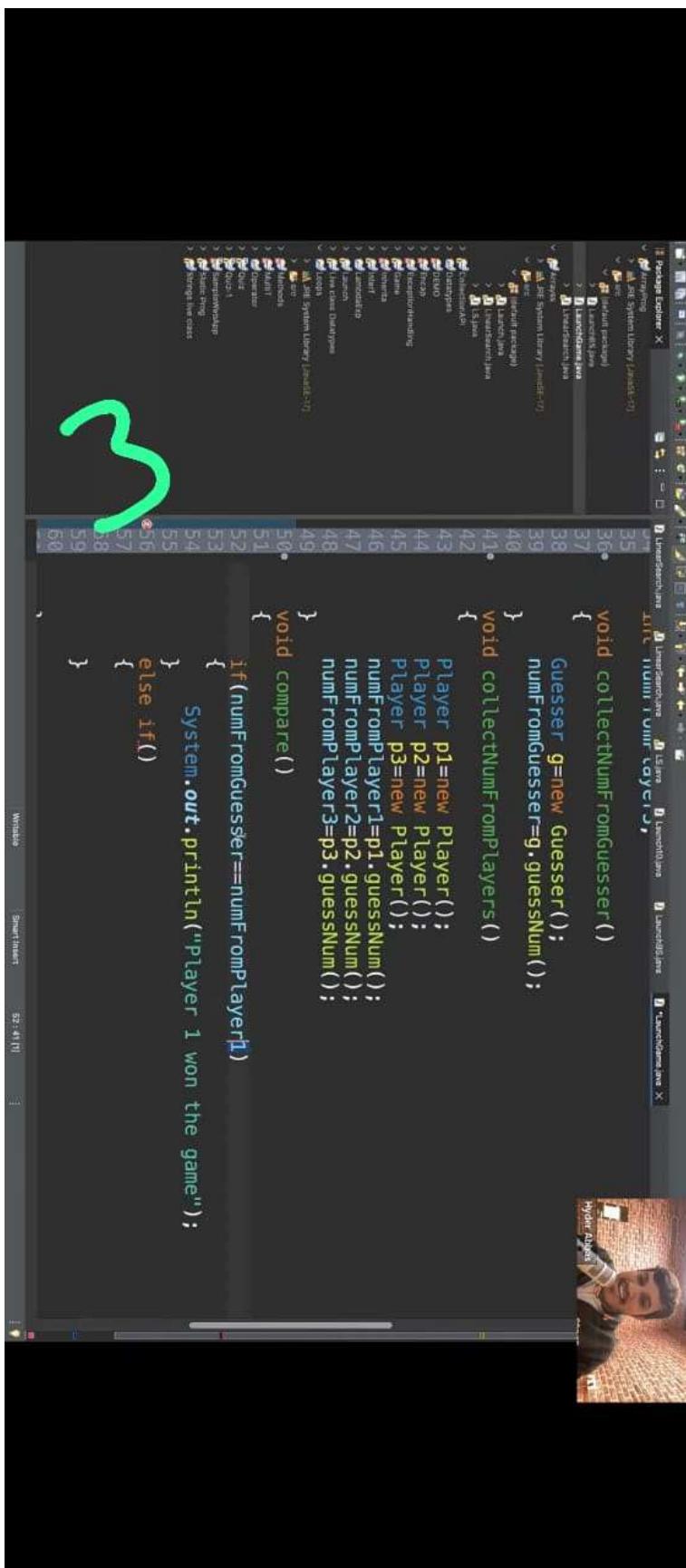
The screenshot shows a Java IDE interface with a package explorer on the left and a code editor on the right. The code editor contains the following Java code:

```
1 import java.util.*;
2
3 class Guesser
4 {
5     int guessNum;
6
7     int guessNum()
8     {
9         Scanner scan=new Scanner(System.in);
10        System.out.println("Guesser kindly guess the number");
11        guessNum=scan.nextInt();
12        return guessNum;
13    }
14}
15
16 class Player
17 {
18     int guessNum;
19
20     int guessNum()
21     {
22         Scanner scan=new Scanner(System.in);
23         System.out.println("Player kindly guess the number");
24         guessNum=scan.nextInt();
25     }
26
27 }
```

A green arrow points from the text "Java String Part1" at the top to the word "String" in the code editor.

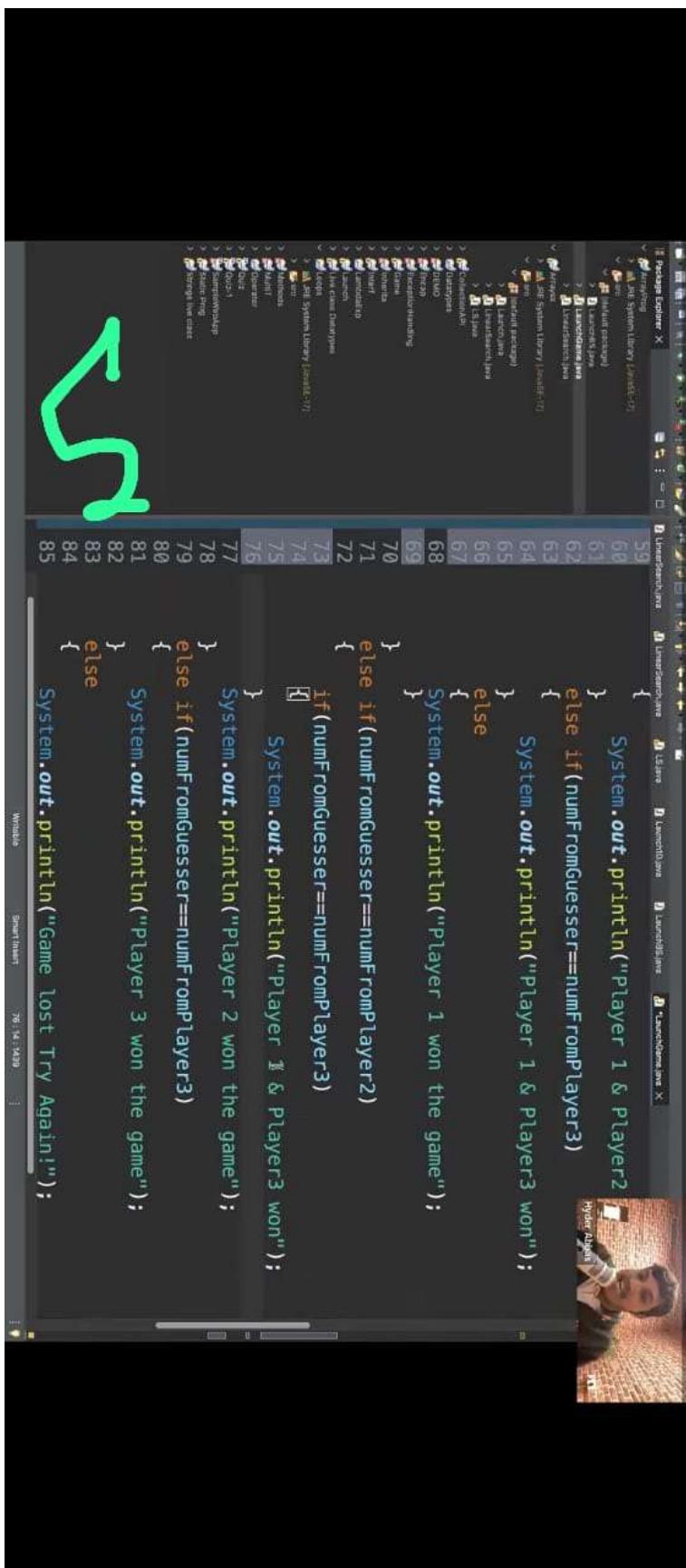
A screenshot of a Java code editor showing a file named `Player.java`. The code defines a `Player` class with a `guessNum()` method. A `Scanner` object is used to read input from the console. The code is annotated with numbers 16 through 41. A large green handwritten mark 'Z' is written over the code area. In the background, a video player window titled "My dog Abbie" is visible.

```
16 class Player
17 {
18     int guessNum;
19
20     int guessNum()
21     {
22         Scanner scan=new Scanner(System.in);
23         System.out.println("Player kindly guess the number");
24         guessNum=scan.nextInt();
25     }
26 }
27
28 class Umpire
29 {
30     int numFromGuesser;
31     int numFromPlayer1;
32     int numFromPlayer2;
33     int numFromPlayer3;
34
35     void collectNumFromGuesser()
36     {
37         Guesser g=new Guesser();
38         numFromGuesser=g.guessNum();
39     }
40     void collectNumFromPlayers()
41     {
```





```
1 Package Explorer X
2 
3 
4 
5 
6 
7 
8 
9 
10 
11 
12 
13 
14 
15 
16 
17 
18 
19 
20 
21 
22 
23 
24 
25 
26 
27 
28 
29 
30 
31 
32 
33 
34 
35 
36 
37 
38 
39 
40 
41 
42 
43 
44 
45 
46 
47 
48 
49 
50* void compare()
51 {
52     if(numFromGuesser==numFromPlayer1)
53     {
54         if(numFromGuesser==numFromPlayer2 && numFromGuesser==
55             System.out.println("All players won the game");
56     }
57     else if(numFromGuesser==numFromPlayer2 )
58     {
59         System.out.println("Player 1 & Player2 won");
60     }
61     else if(numFromGuesser==numFromPlayer3)
62     {
63         System.out.println("Player 1 & Player3 won");
64     }
65     else
66     {
67         System.out.println("Player 1 won the game");
68     }
69 }
70 else if(numFromGuesser==numFromPlayer2)
71 {
72     System.out.println("Player 2 won the game");
73 }
```



The screenshot shows a Java development environment with a code editor and a terminal window.

Code Editor Content:

```
else if(numFromGuesser==numFromPlayer2)
{
    System.out.println("Player 2 won the game");
}
else
{
    System.out.println("Player 3 won the game");
}
```

A green circle highlights the first `else if` block (lines 56-59).

Terminal Window Output:

```
Player 3 won the game
```

IDE Status Bar:

Winkie 77 : 25 / 1203 | Building (9%)

int => datatype, reserve word
String => It is classname, String is basically an inbuilt class for which object can be created.

```
package  
java  
|=> lang  
|=> String
```

7

Unlocked - Notepad

File Edit View



20°C Cloudy

14:00 Windows (CET) | UTF-8

ENG IN

21/04/2022 02:11:2022

Java (.java)

```
1 public class Test {  
2     public static void main(String[] args) {  
3         String s1="sachin";  
4         System.out.println(s1);//sachin  
5         String s2= new String("kohli");  
6         System.out.println(s2);  
7     }  
8 }  
9  
10  
11  
12  
13  
14  
15
```

File Edit View Search Document Project Tools Browser Engine Window Help

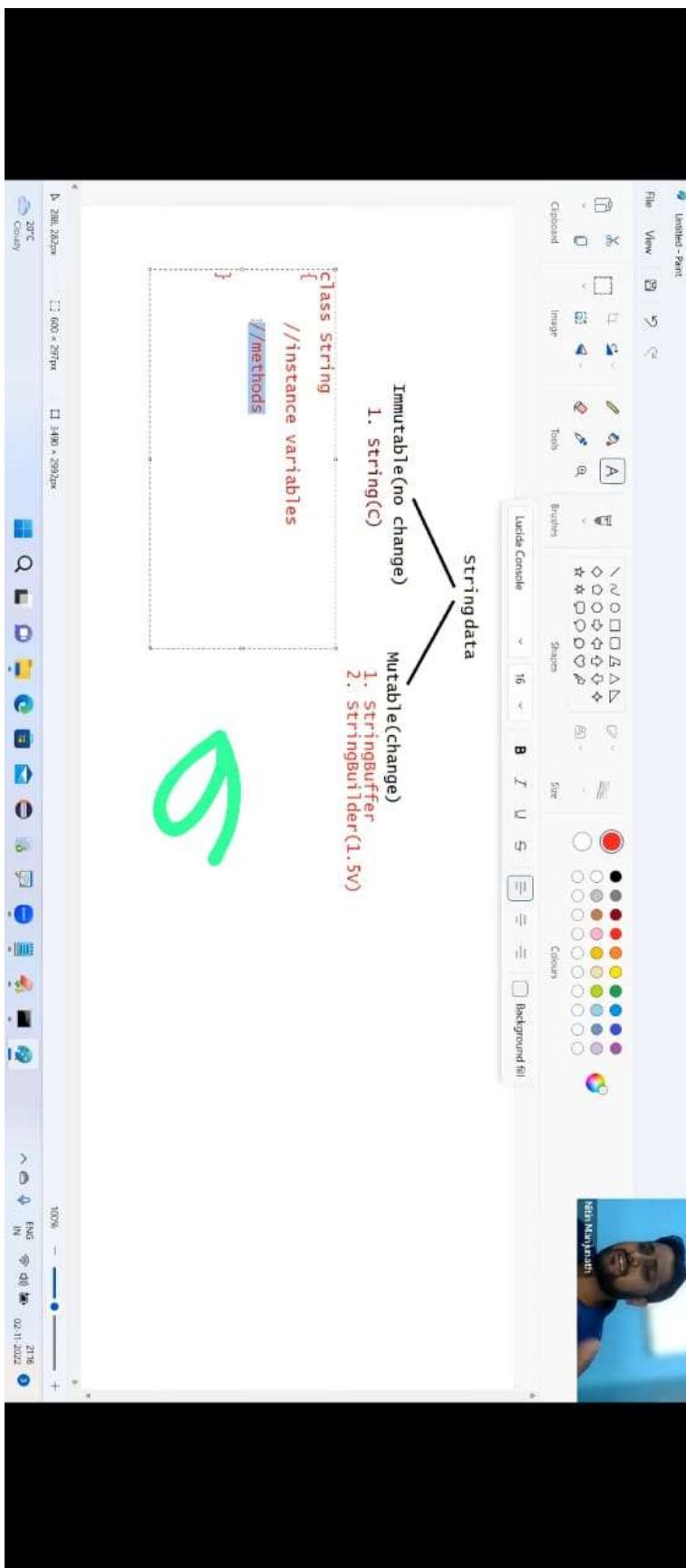
Directory Chooser

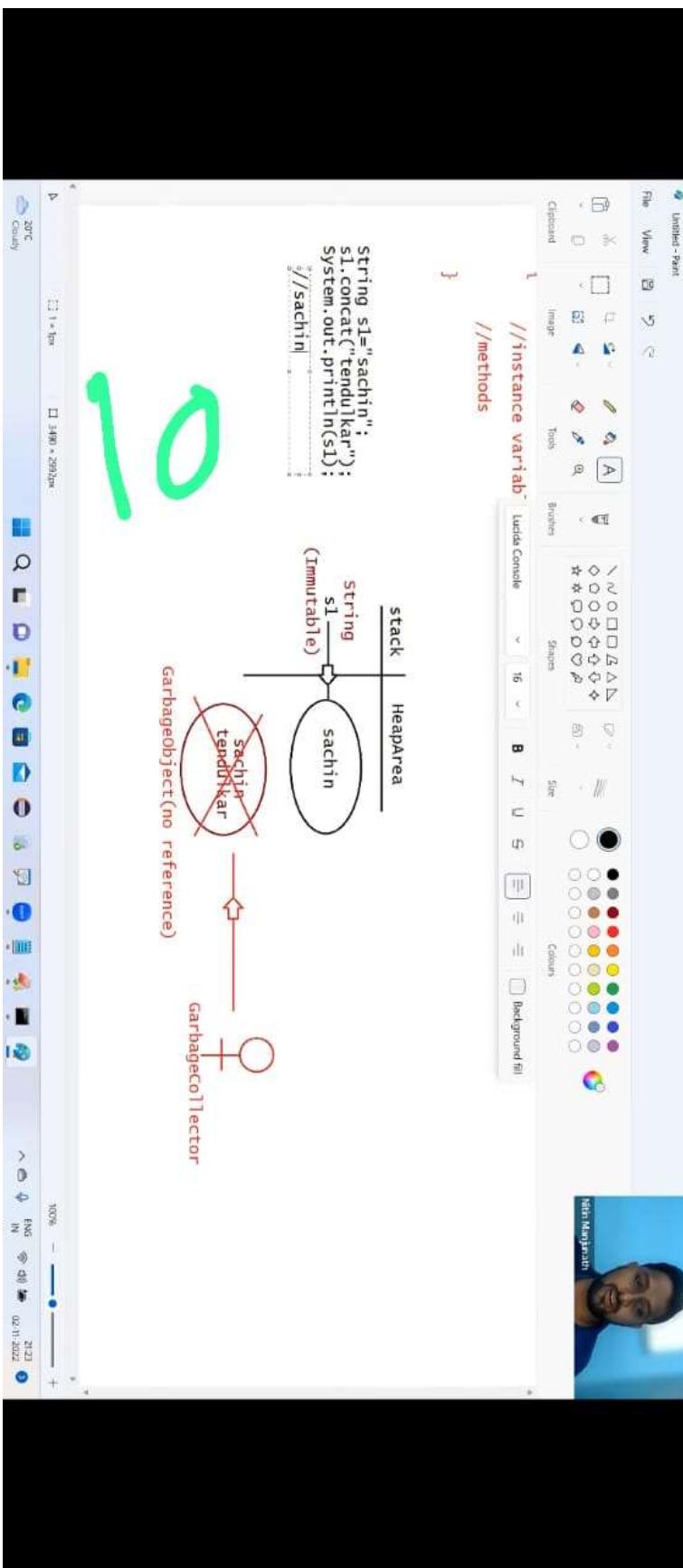
D:\ New Volume

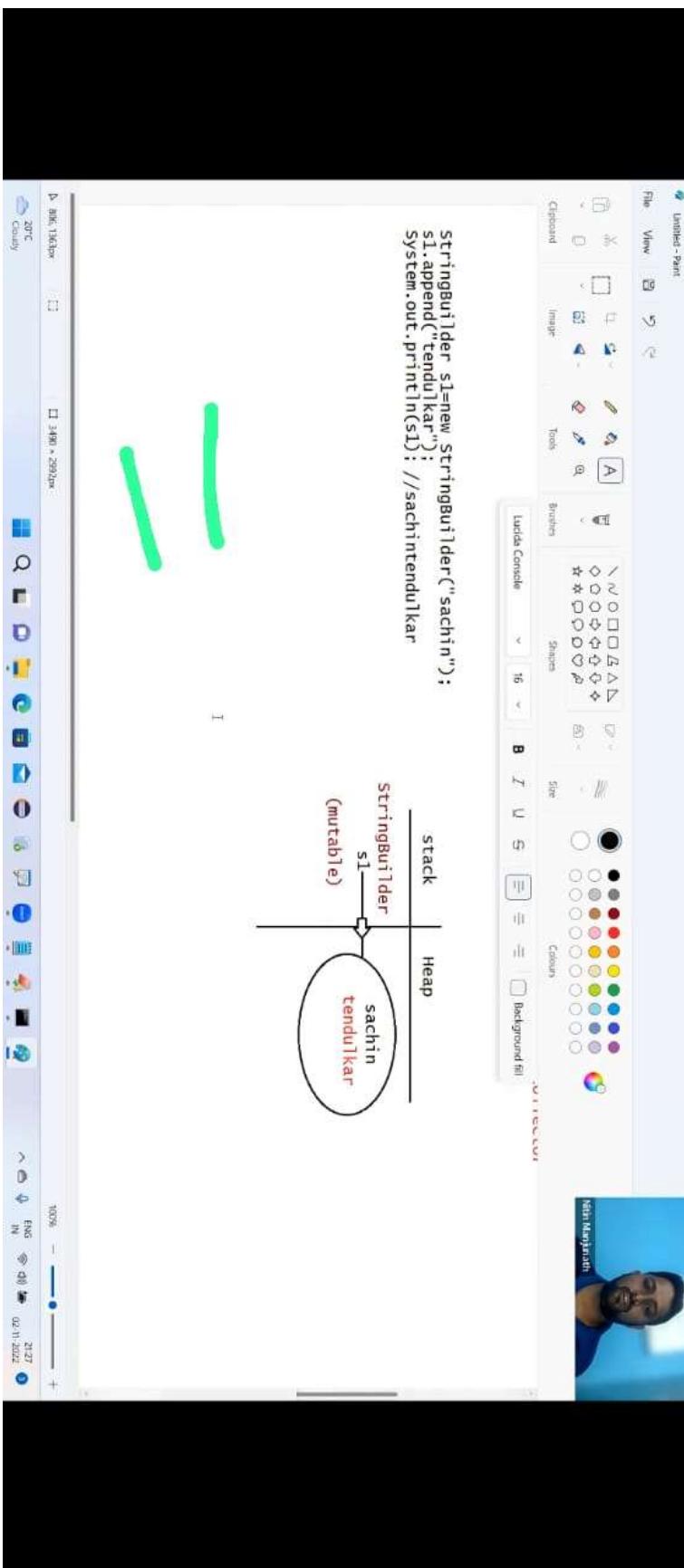
1 D:
2 RECYCLEBIN
3 Compartments
4 Examples
5 enterprisebin
6 Front end video
7 gitHub
8 gitbooks
9 gitnotes
10 gitpractices
11 maven

Nitin Mampuri

Java (.java)
@TestDemo.java
@Test.java
@Test.java
@Test.java
@Test.java
@Test.java
For Help press F1
Cloudy 20°C 2010 02/11/2022







In java String object is by default immutable,meaning once the object is created we cannot change object, if we try to change then those changes will be reflected on the new object not on the existing object.

```
case 1:: String s = "sachin";
s.concat("tendulkar");(new object got created with modification so immutable)
System.out.println(s);
output::sachintendulkar
```

vs

```
StringBuilder sb=new StringBuilder("sachin");
sb.append("tendulkar");(on the same object modification so mutable)
System.out.println(sb);
output:: sachintendulkar
```

2.11.2022 String section classmate - Notepad

File

Edit

View

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

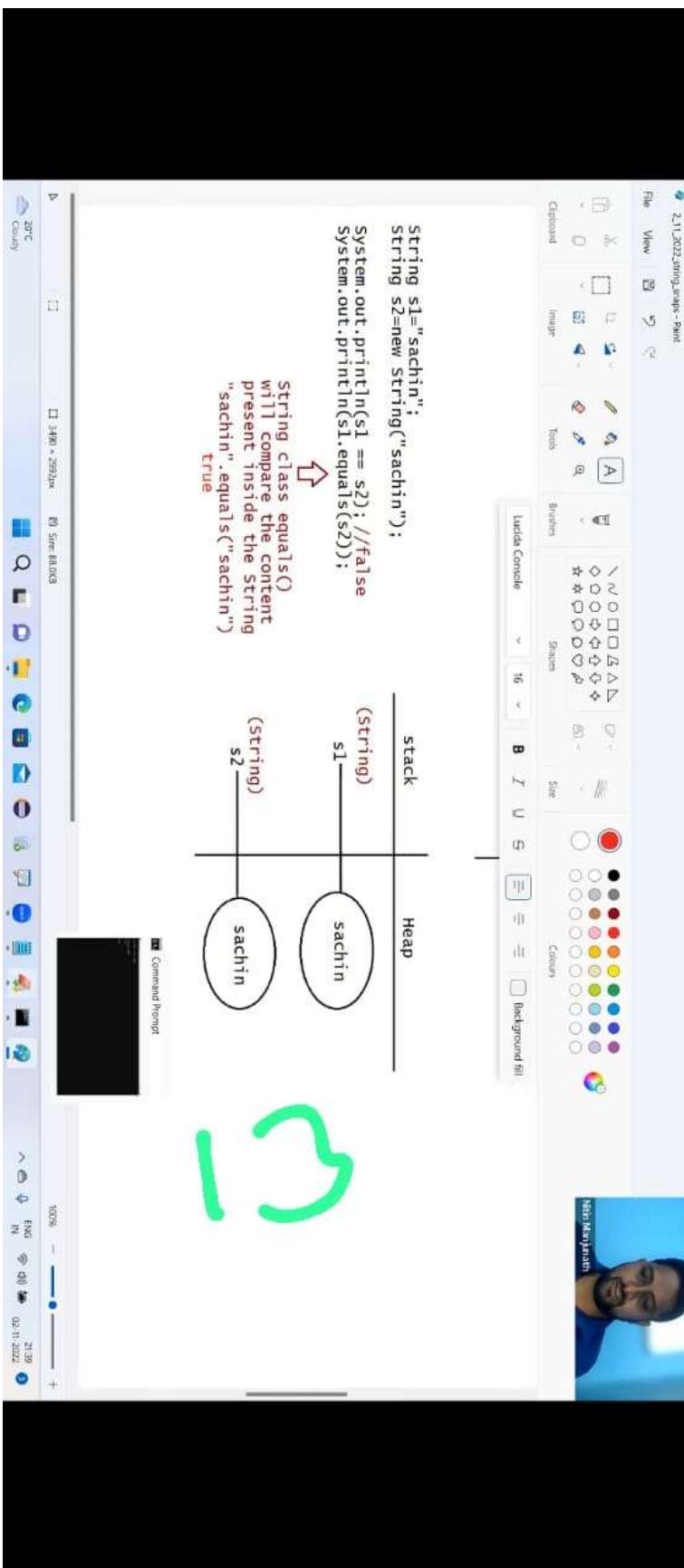
291

292

293

294

295



2.11.2/2 String - Interview Questions - Nonfinal

File Edit View

vs

```
StringBuilder sb=new StringBuilder("sachin");
sb.append("tendulkar");//(on the same object modification so mutable)
System.out.println(sb);
```

output:: sachintendulkar

```
case 2:: String s1 = new String("sachin");
String s2 = new String("sachin");
System.out.println(s1==s2); //false
System.out.println(s1.equals(s2)); //true
=> String class .equals method will compare the content of the object
if same return true otherwise return false
```

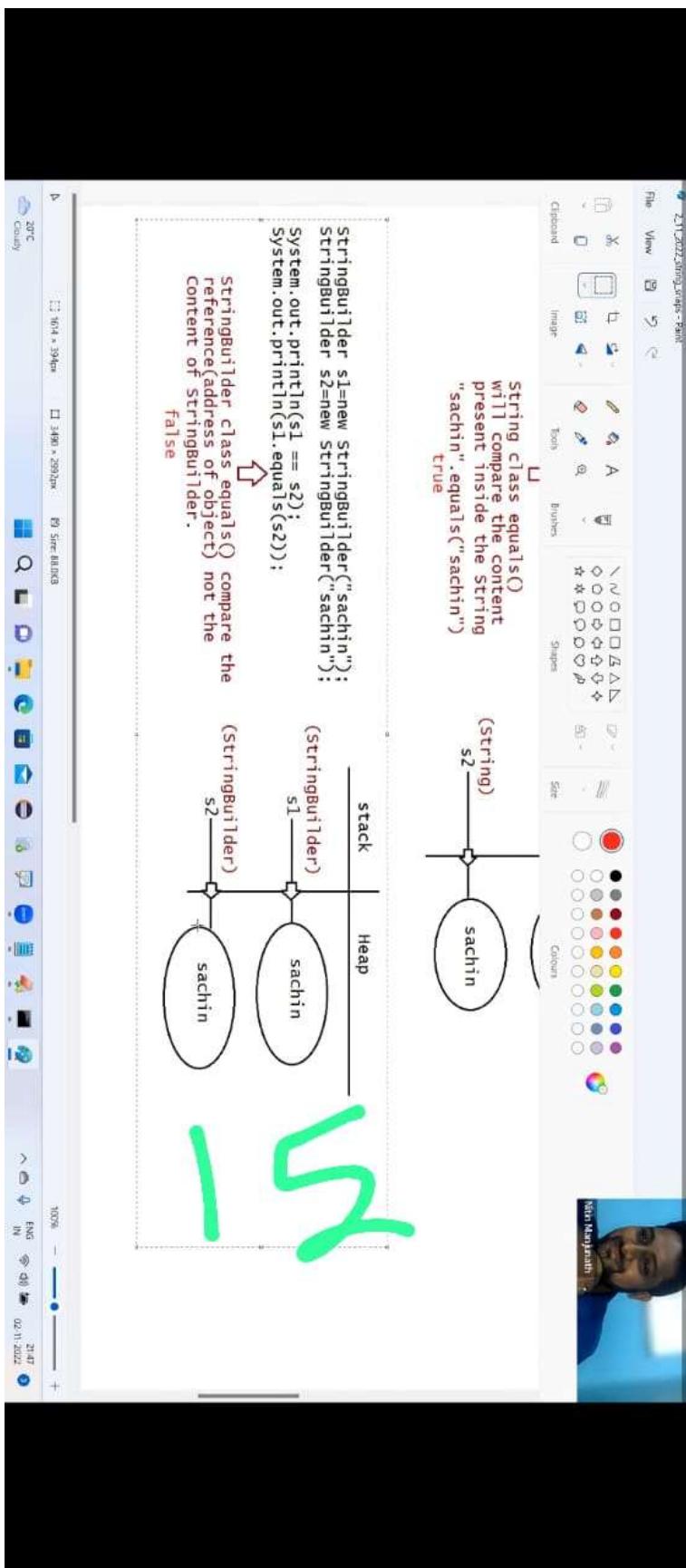
1 X

Ln 36 Col 16

20°C Cloudy

100% Windows (CEP) UTF-8

ENG IN 21:40 02/11/2022



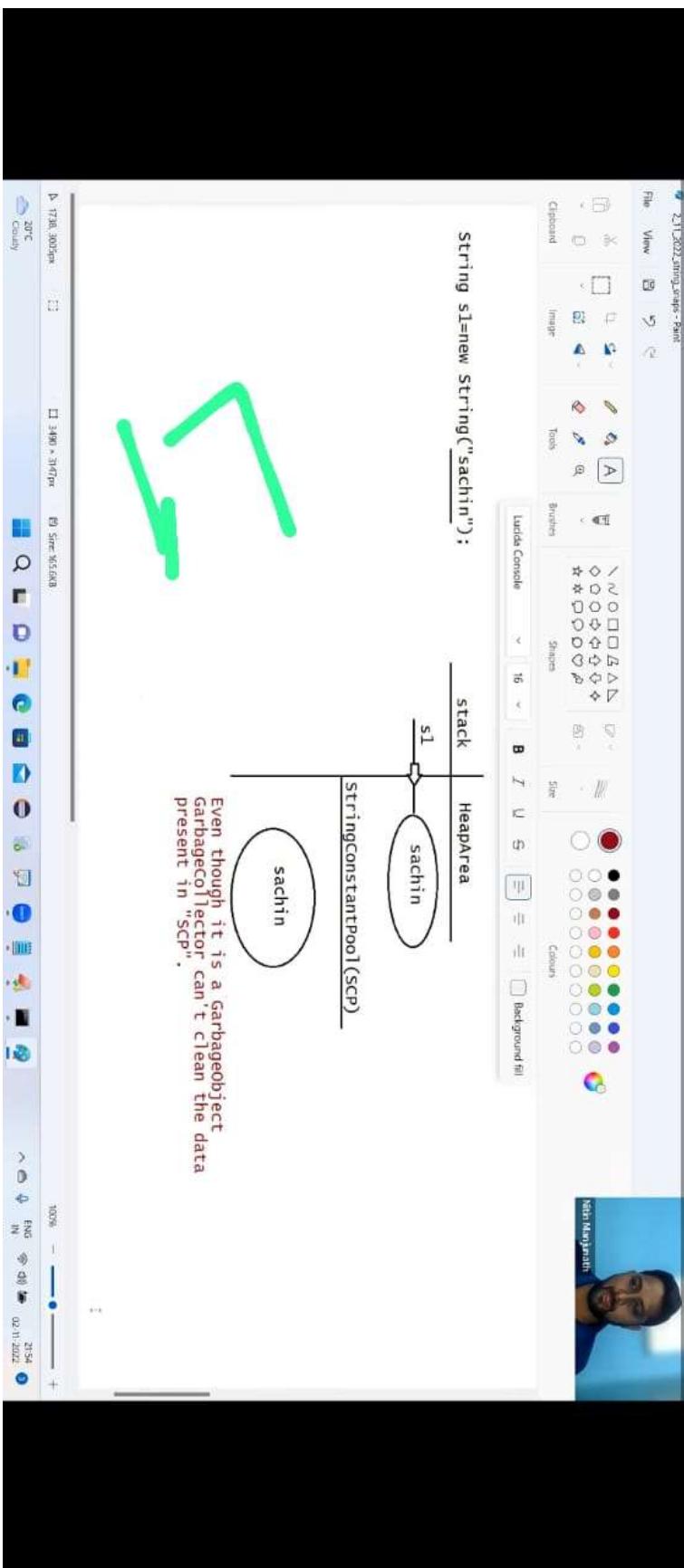
```
2.11_Java_2_String_and_Classes - Notepad  
File Edit View  
  
output:: sachintendulkar  
  
case 2:: String s1 = new String("sachin");  
String s2 = new String("sachin");  
System.out.println(s1==s2); //false  
System.out.println(s1.equals(s2)); //true  
  
=> String class .equals method will compare the content of the object if same return true otherwise return false
```

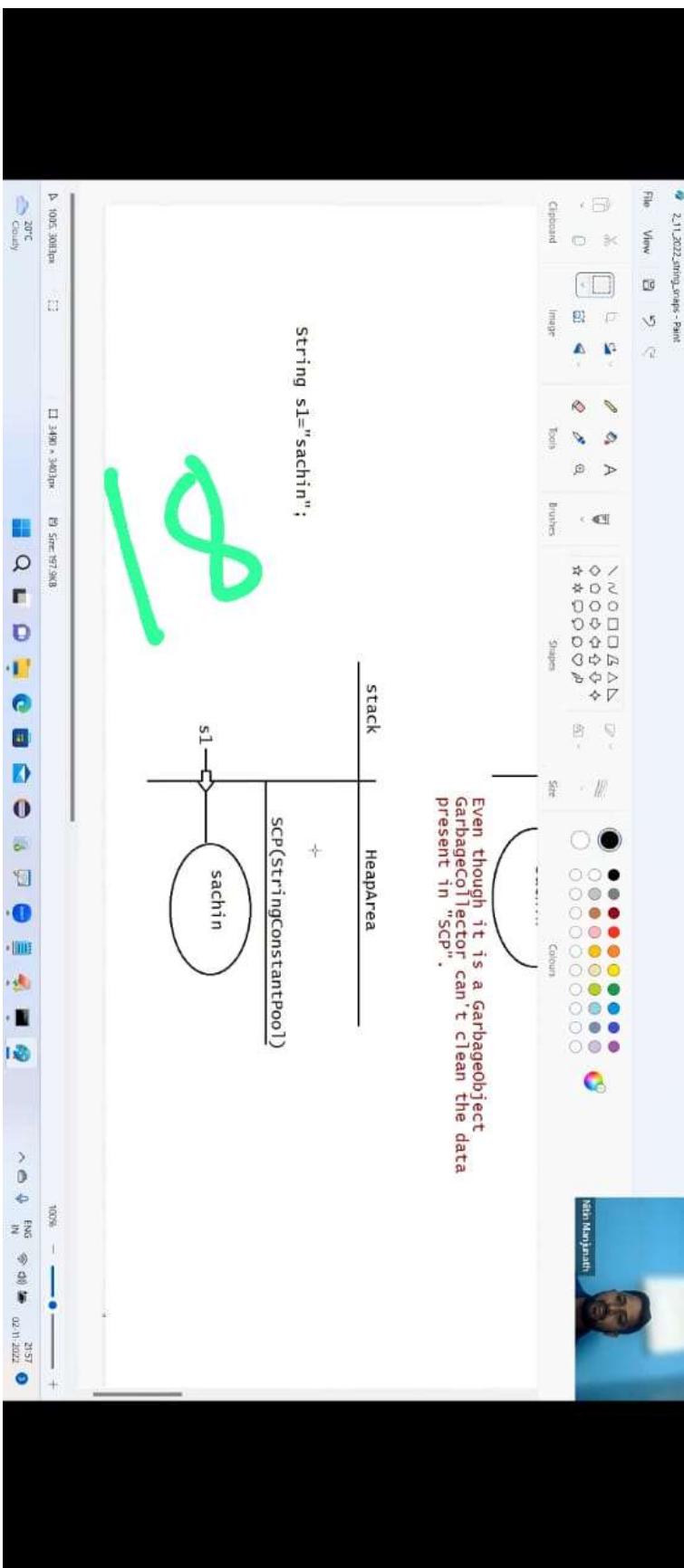
vs

```
StringBuilder sb1 = new StringBuilder("sachin");  
StringBuilder sb2 = new StringBuilder("sachin");  
System.out.println(sb1==sb2); //false  
System.out.println(sb1.equals(sb2)); //false  
  
=> StringBuilder class .equals method is not overridden so it will use Object  
class .equals() which is meant for reference comparison.  
  
if different object returns false, even if the contents are same.
```

16

Ln 38 Col 1 100% Windows (UTF-8) | UTF-8
20°C Cloudy





File
Edit
View



10% Windows (UTF-8) UTF-8

ENG IN 22/12/2022

2.11.2022 Sympy-session-classnotes - Notepad

File Edit View



What will be the result of compiling and executing Test class?

```
public class Test {  
    public static void main(String[] args) {  
        int a = 7;// a = 7,8,9  
        boolean res = a++ == 7 && ++a == 9 || a++ == 9; // 7==7(true) && 9==9(true) || a++=9 = true  
        System.out.println("a = " + a);  
        System.out.println("res = " + res);  
    }  
}
```

- A. a=10
- B. a=9
- C. a=10
- D. compilation error

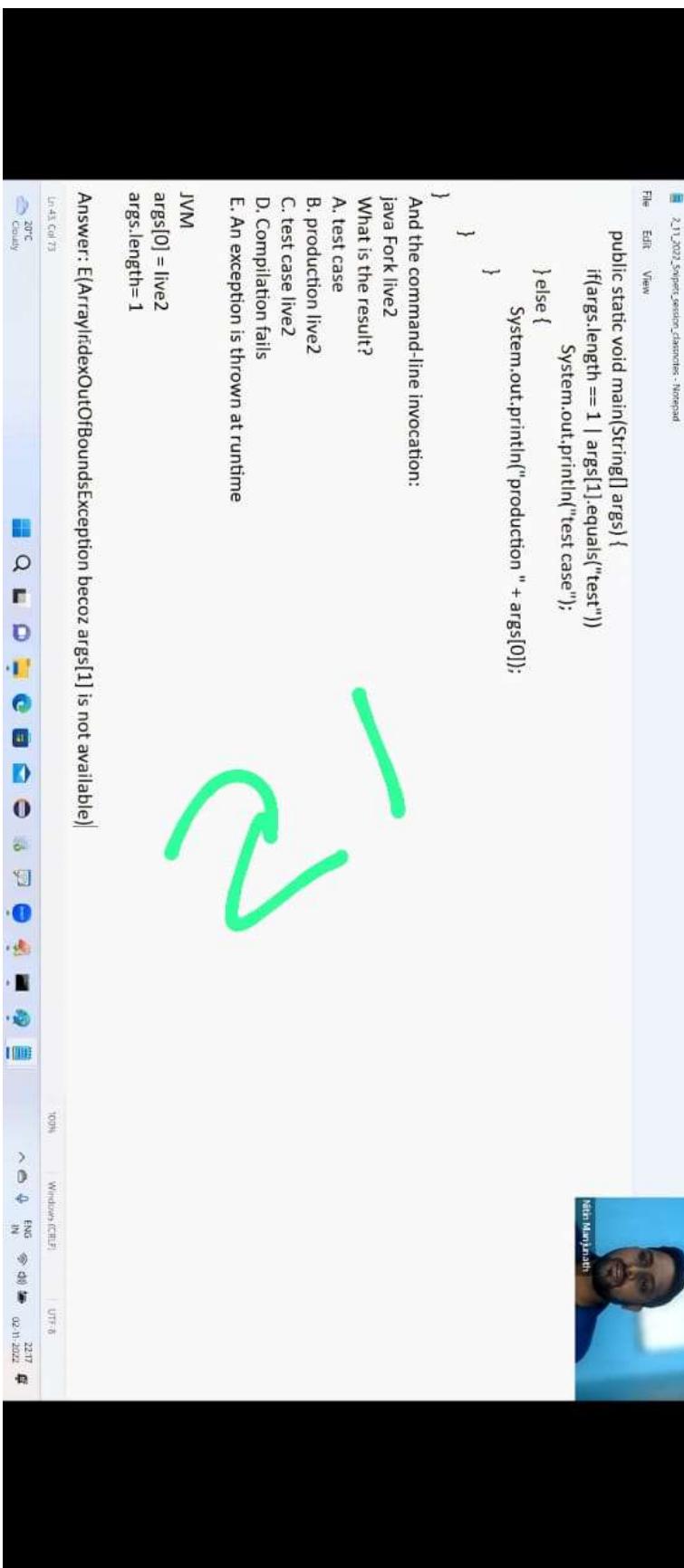
Answer: B

19

```
2.11.2022 Sympy_session_classnotes - Notepad
File Edit View
Q>
class Fork{
    public static void main(String[] args) {
        if(args.length == 1 || args[1].equals("test")){
            System.out.println("test case");
        }else{
            System.out.println("production " + args[0]);
        }
    }
}
And the command-line invocation:
java Fork live2
What is the result?
A. test case
B. production live2
C. test case live2
D. Compilation fails
E. An exception is thrown at runtime
JVM
args[0] = live2


```





```
2.11.2022 Sympy_session.classpath - Notepad
File Edit View
public static void main(String[] args) {
    if(args.length == 1 || args[1].equals("test")) {
        System.out.println("test case");
    } else {
        System.out.println("production " + args[0]);
    }
}

And the command-line invocation:
java Fork live2
What is the result?
A. test case
B. production live2
C. test case live2
D. Compilation fails
E. An exception is thrown at runtime
```

JVM

```
args[0] = live2
args.length=1
```

Answer: E(ArrayIndexOutOfBoundsException becoz args[1] is not available)

2.11.2022 Session - classnotes - Naveenard

File Edit View

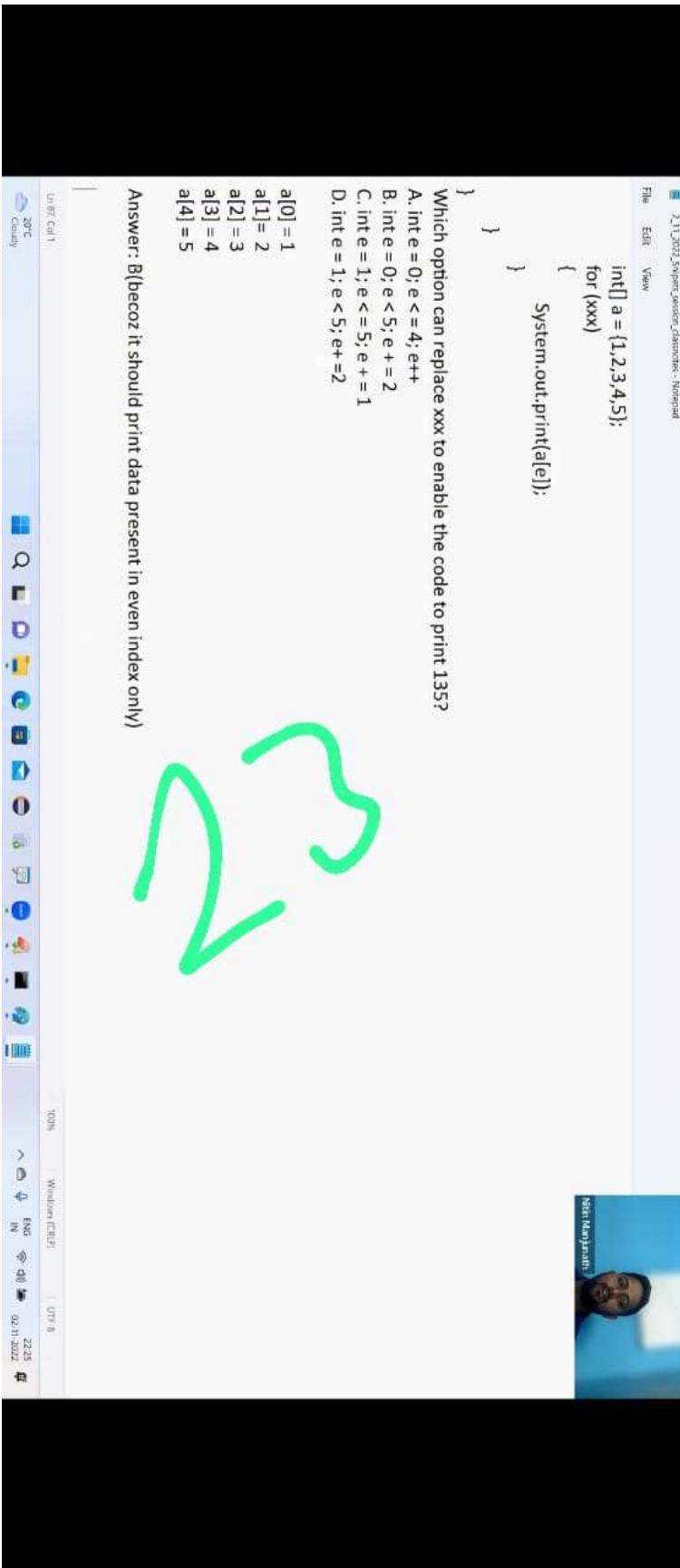
Q>

```
public class Test {
    public static void main(String[] args) {
        int aVar = 9;// aVar = 10
        if(aVar++ < 10) // if(9<10)true
            System.out.println(aVar + " Hello World!");
        else
            System.out.println(aVar + " Hello Universe!");
    }
}
```

A. 10 Hello World!
B. 9 Hello Universe!
C. 10 Hello World
D. Compilation fails.

Answer: A

22



```
2.11.2022 Sympy_session.classmate - Notepad
File Edit View
int[] a = {1,2,3,4,5};
for (xxx)
{
    System.out.print(a[e]);
}
}

Which option can replace xxx to enable the code to print 135?
A. int e = 0; e <= 4; e++
B. int e = 0; e < 5; e += 2
C. int e = 1; e <= 5; e += 1
D. int e = 1; e < 5; e+=2
```

Answer: B(becoz it should print data present in even index only)



```
*2.11.2022_Sunprc_senior_characters - Notepad  
File Edit View  
public class Test {  
    public static void main(String[] args) {  
        int[] a = {1,2,3,4,5};  
        for (xxx)  
        {  
            System.out.print(a[e]);  
        }  
    }  
}
```

Which option can replace xxx to enable the code to print 135?

- A. int e = 0; e <= 4; e++
- B. int e = 0; e < 5; e += 2
- C. int e = 1; e <= 5; e += 1
- D. int e = 1; e < 5; e+=2

a[0] = 1
a[1] = 2
a[2] = 3
a[3] = 4
a[4] = 5

Answer: B(becoz it should print data present in even index only)

2 4

Ln 85 Col 15
Cloudy 20°C

100% Windows (CET)
UTF-8

~ ⌂ ⌄ ENG IN

22:24 02/11/2022

Java code in a code editor:

```
Q>
public class Test {
    public static void main(String[] args) {
        int num = 5;//num=5,A
        do{
            System.out.println(num-- + "");//System.out.println(5)
        while (num == 0);
        A==0(false)
    }
}
What is the result?
A. 5 4 3 2 1 0
B. 5 4 3 2 1
C. 4 2 1
D. 5
E. Nothing is printed
F. 4
G. CompileTimeError
```

Handwritten note: LSQ

Answer: D

System tray icons:

- Un 10% Cool T
- 20°C Cloudy

Taskbar icons:

- File Edit View
- Minimize Maximize Close

System status bar:

- 100% Windows CE/Pi
- ENG IN 22:30 02/11/2022

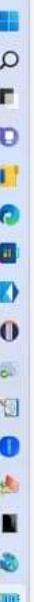
```
*2.11.2022_Superior_diagnostics - Notepad  
File Edit View  
  
public static void main(String[] args) {  
    int ii=0;  
    int jj=7;  
    for (ii=0;ii<jj-1;ii=ii+2){  
        System.out.print(ii);  
    }  
}  
  
What is the result?  
A. 2 4  
B. 0 2 4 6  
C. 0 2 4  
D. Compilation fails
```

2 6

JVM
ii=0,0<6(true)
ii=2, 2<6(true)
ii=4,4<6(true)
ii=6, 6<6(false)

Answer: 0 2 4

Ln: 178 Col: 15



TOMH | Windows (C:\UFT) | UTF-8
^ ⌂ ⌄ ENG ⌂ d% 22:31 02/11/2022 ⌂

File Edit View

```
array[0] = 10;
array[1] = 20;
System.out.print(array[0]+";" array[1]);
}
```

Which code fragment, when inserted at line 3, enables the code to print 10:20?

- A. int[] array n= new int[2];
- B. int[] array;
array = new int[2];
- C. int array = new int[2];
- D. int array [2];

JVM

- A. int[] array n= new int[2];//invalid identifier
- B. int[] array;//array declaration
array = new int[2];//array initialization
- C. int array = new int[2];//[] is missing
- D. int array [2];



Un 15% Col 19



100% Windows (CEP) UTC+8

~ ⌂ ⌄ ENG IN 22:36 02/11/2022



2.11.2022 Sympy_session_classmate - Notepad

File Edit View

array = new int[2];//array initialization
C. int array = new int[2];//[] is missing
D. int array [2];//new is missing

Q>

```
public class Test {  
    public static void main(String[] args) {  
        boolean opt=true;  
        switch (opt){  
            case true:System.out.print("True");  
            break;  
            default: System.out.print("****");  
        }  
        System.out.print("Done");  
    }  
}
```

Predict the Output?
A. CompileTime Error.
B. Some problem occurred by jvm during execution.
C. True
D. True

Un 183°C/13 °F 70% Windows (CEP) 22:39 UTC+8 ENG ⌂ ⓘ 02/11/2022 ⌂

Nitin Manjrekar

2.11.2022 Sympy_session_classnotes - Notepad

File Edit View

Predict the Output?

- A. CompileTime Error.
- B. Some problem occurred by jvm during execution.
- C. True
- D. True
- ***
- Done
- E. None of the above.

Note:

```
switch(arg)
|->byte--->Byte
|->short--->Short
|->int --->Integer
|->char --->Character
|->String
|->enum
```

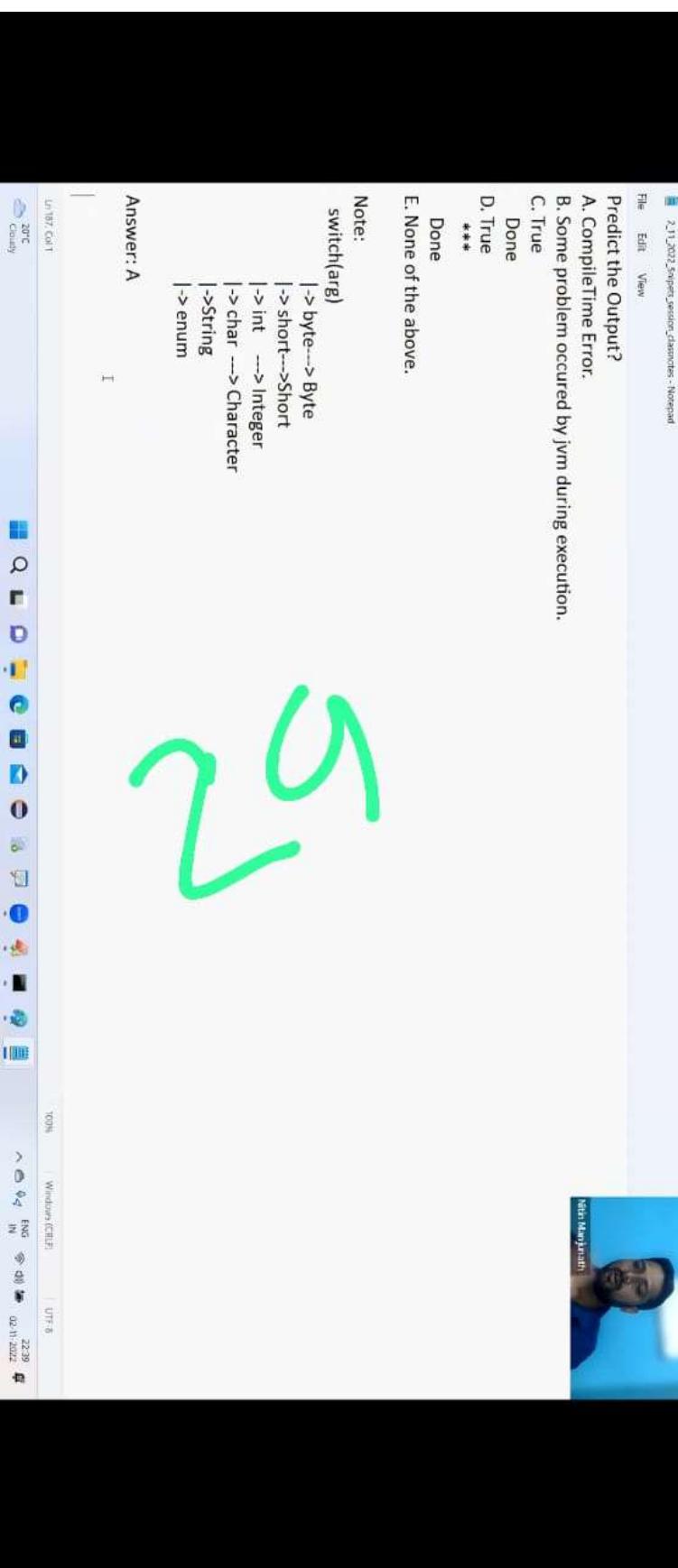
Answer: A

20

187.20.1



100% Windows (CET) UTC-8
ENG IN 22:39 02/11/2022



```
2.11.2022 - Student Session, Characteristics - References
```

```
File Edit View
```

```
public static void main(String[] args) {
```

```
    int intArr[] = {15,30,45,60,75};  
    intArr[2] =intArr[4];  
    intArr[4] = 90;
```

```
}
```

What are the values of each element in intArr after this code has executed?

- A. 15, 60, 45, 90, 75
- B. 15, 90, 45, 90, 75
- C. 15, 30, 75, 60, 90
- D. 15, 30, 90, 60, 90
- E. 15, 4, 45, 60, 90

```
intArr[0] = 15  
intArr[1] = 30  
intArr[2] = 45,75  
intArr[3] = 60  
intArr[4] = 75,90
```

Output: 15,30,75,60,90

Answer: C

Ln 208 Col 23



Cloudy



100% Windows CE/UTF-8 UTF-8

~ 20C ENG IN 22:42 02/11/2022

30



File Edit View

```
class Test{
    public static void main(String[] args){
        System.out.println("Hello World!");
    }
}
```

- A. CE
 - B. some problem at runtime
 - C. hello
 - D. none of the above

Answer: C (becoz x is not initialized)

```
class Test{  
    public static void main(String[] args){  
        int x;  
        System.out.println(x);  
    }  
}
```



eg#5.

```
class Test{  
    public static void main(String[] args){  
        int x;/local variable ---> no default initialization by jvm, programmer should do  
        System.out.println(x);  
    }  
}
```

- A. CE
- B. some problem at runtime
- C. hello
- D. 0
- E. none of the above

Answer: A (becoz x is not initialized)

Answer: C (becoz x is not initialized)

eg#4

```
class Test{  
    public static void main(String[] args){  
        int x;/local variable ---> no default initialization by jvm, programmer should do  
        System.out.println(x);  
    }  
}
```

- A. CE
- B. some problem at runtime
- C. hello
- D. 0
- E. none of the above

Answer: A (becoz x is not initialized)

32

Un 237, Gd 10
Cloudy 20°C



T00% Windows (CEP7) UTF-8

ENG ☰ 22:45 02/11/2022



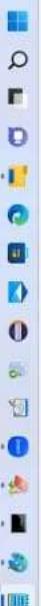
```
eg#5.  
class Test{  
    public static void main(String[] args){  
        int x;  
        if(args.length>0){  
            x=10;  
        }  
        System.out.println(x);  
    }  
}  
Assume java Test 10 is passed through command line
```

- A. CE
- B. some problem at runtime
- C. hello
- D. 10
- E. none of the above

Answer: A

2.11.2022 SymentSession-classmate - Notepad

File Edit View



Ln: 258, Col: 10
20°C Cloudy
TOP Windows (CEP) | UTF-8
^ ⇧ ⇩ ⇤ ENG ⇧ ⇩ ⇤ 22:46 02/11/2022 ⇤

```
eg#6  
class Test{  
    public static void main(String[] args){  
        int x;  
        if(args.length>0){  
            x=10;  
        }else{  
            x=20;  
        }  
        System.out.println(x);  
    }  
}  
Assume java Test sachin is passed through command line
```

34

- A. CE
- B. some problem at runtime
- C. hello
- D. 10
- E. 20
- F. None of the above



In 286 Cal 10



100% Windows (CET) | UTC+8
^ ⌂ ENG IN 22:51 02/11/2022

File
Edit
View

}

Assume java Test sachin is passed through command line

- A. CE
- B. some problem at runtime
- C. hello
- D. 10
- E. 20
- F. None of the above

```
java Test sachin
args[0] = "sachin"
args.length = 1
x=10
java Test
args.length = 0
x=20
```

33

Ln 288 Col 10



100%

Windows (C:\RF)

UTF-8

~ ⌂ ⌄ ENG IN 22:51 02/11/2022

