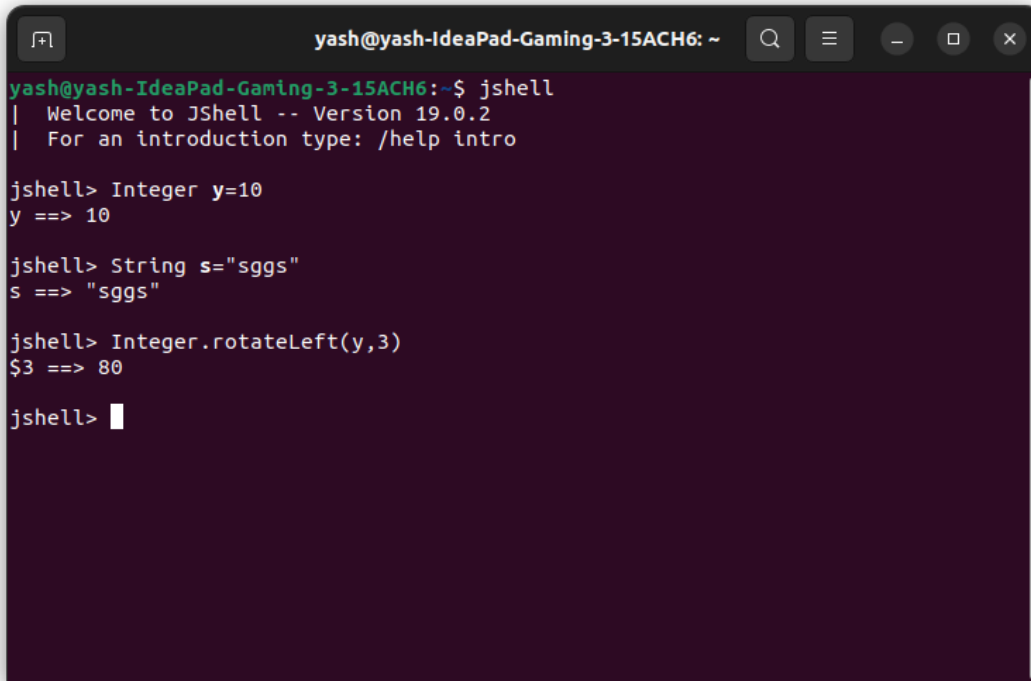


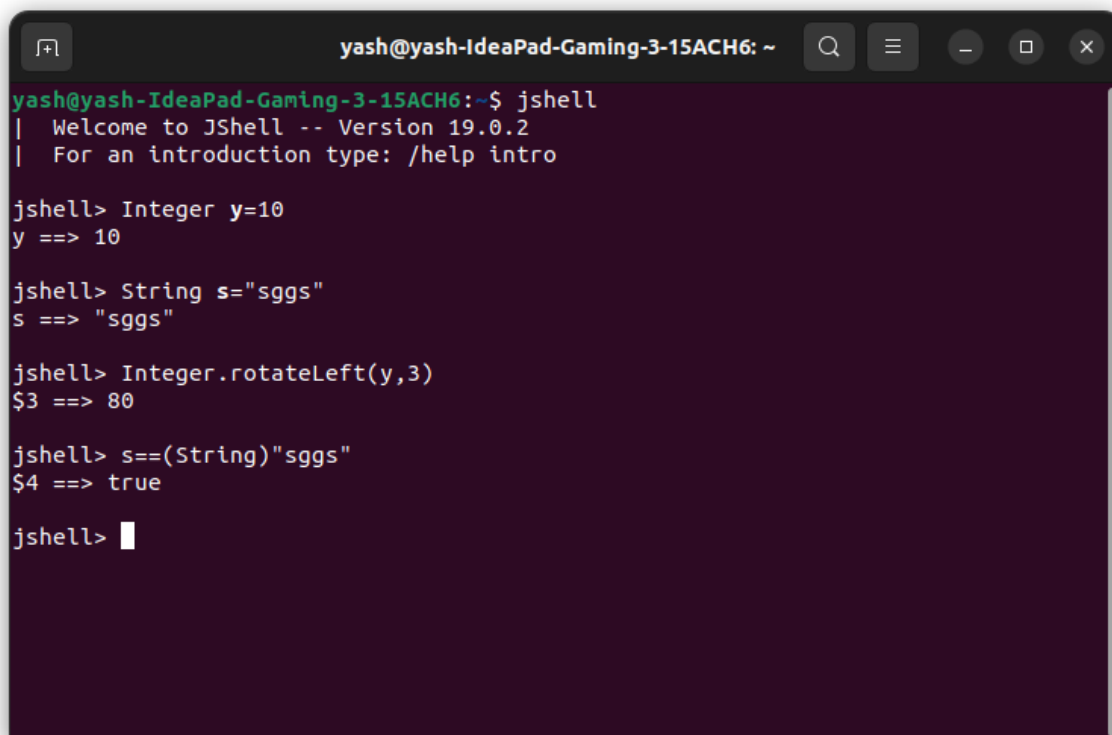
Question 1)

a)



```
yash@yash-IdeaPad-Gaming-3-15ACH6: ~  
yash@yash-IdeaPad-Gaming-3-15ACH6:~$ jshell  
| Welcome to JShell -- Version 19.0.2  
| For an introduction type: /help intro  
  
jshell> Integer y=10  
y ==> 10  
  
jshell> String s="sggs"  
s ==> "sggs"  
  
jshell> Integer.rotateLeft(y,3)  
$3 ==> 80  
  
jshell> 
```

b)



```
yash@yash-IdeaPad-Gaming-3-15ACH6: ~  
yash@yash-IdeaPad-Gaming-3-15ACH6:~$ jshell  
| Welcome to JShell -- Version 19.0.2  
| For an introduction type: /help intro  
  
jshell> Integer y=10  
y ==> 10  
  
jshell> String s="sggs"  
s ==> "sggs"  
  
jshell> Integer.rotateLeft(y,3)  
$3 ==> 80  
  
jshell> s==(String)"sggs"  
$4 ==> true  
  
jshell> 
```

c)

```
yash@yash-IdeaPad-Gaming-3-15ACH6: ~  
jshell> Integer y=10  
y ==> 10  
  
jshell> String s="sggs"  
s ==> "sggs"  
  
jshell> Integer.rotateLeft(y,3)  
$3 ==> 80  
  
jshell> s==(String)"sggs"  
$4 ==> true  
  
jshell> y+(y=17)  
$5 ==> 27  
  
jshell> Integer(25)  
| Error:  
| cannot find symbol  
|   symbol:   method Integer(int)  
|   Integer(25)  
|   ^-----^  
jshell> 
```

d)

```
yash@yash-IdeaPad-Gaming-3-15ACH6: ~  
jshell> Integer y=10  
y ==> 10  
  
jshell> String s="sggs"  
s ==> "sggs"  
  
jshell> Integer.rotateLeft(y,3)  
$3 ==> 80  
  
jshell> s==(String)"sggs"  
$4 ==> true  
  
jshell> y+(y=17)  
$5 ==> 27  
  
jshell> Integer(25)  
| Error:  
| cannot find symbol  
|   symbol:   method Integer(int)  
|   Integer(25)  
|   ^-----^  
jshell> 
```

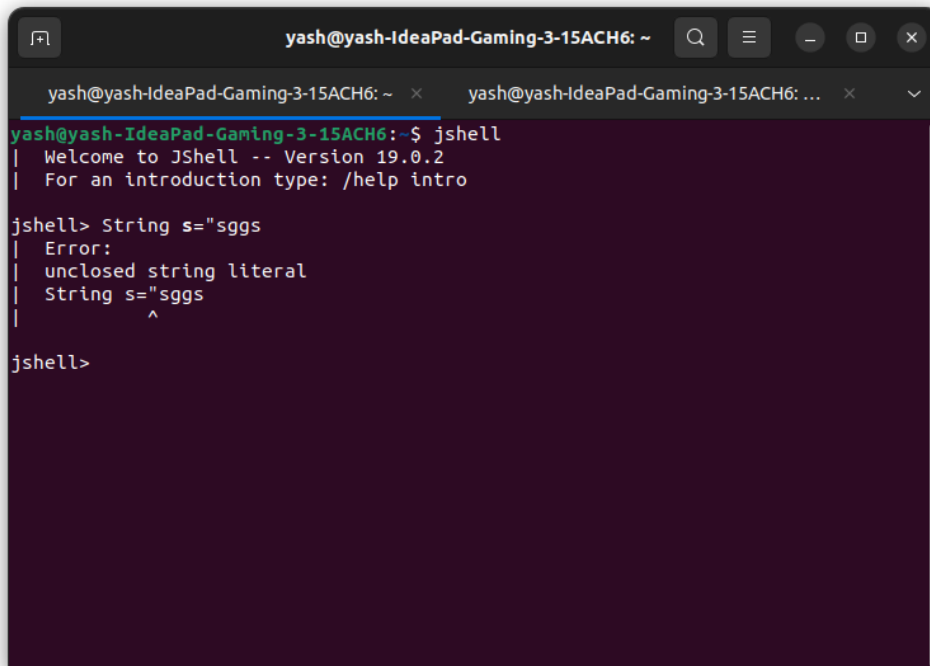
e)

```
yash@yash-IdeaPad-Gaming-3-15ACH6: ~  
jshell> String s="sggs"  
s ==> "sggs"  
  
jshell> Integer.rotateLeft(y,3)  
$3 ==> 80  
  
jshell> s==(String)"sggs"  
$4 ==> true  
  
jshell> y+(y=17)  
$5 ==> 27  
  
jshell> Integer(25)  
| Error:  
| cannot find symbol  
|   symbol:   method Integer(int)  
|   Integer(25)  
|   ^-----^  
  
jshell> (short)9042024  
$6 ==> -1944  
  
jshell> 
```

a)

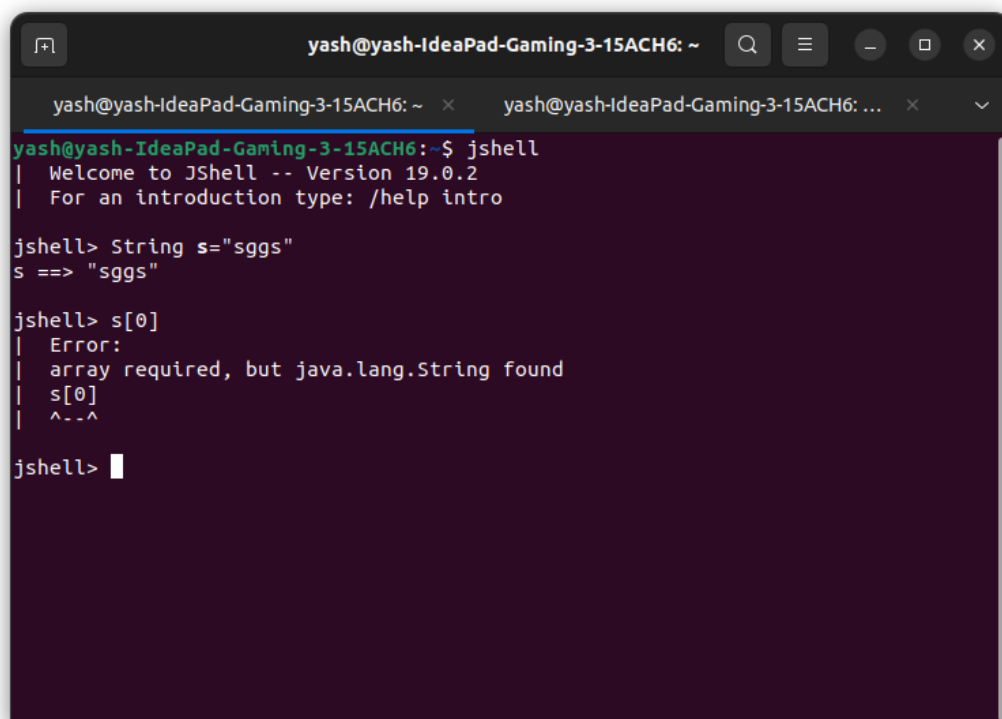
```
yash@yash-IdeaPad-Gaming-3-15ACH6: ~/Java_Question_Pap...  
yash@yash-IdeaPad-Gaming-3-15ACH6: ~ x yash@yash-IdeaPad-Gaming-3-15ACH6: ... x v  
yash@yash-IdeaPad-Gaming-3-15ACH6:~/Java_Question_Papers/Mid_Sem_Question_Paper$  
java Sample  
Error: Could not find or load main class Sample  
Caused by: java.lang.ClassNotFoundException: Sample  
yash@yash-IdeaPad-Gaming-3-15ACH6:~/Java_Question_Papers/Mid_Sem_Question_Paper$
```

b)



```
yash@yash-IdeaPad-Gaming-3-15ACH6: ~  
yash@yash-IdeaPad-Gaming-3-15ACH6: ~$ jshell  
Welcome to JShell -- Version 19.0.2  
For an introduction type: /help intro  
  
jshell> String s="sggs  
Error:  
unclosed string literal  
String s="sggs  
      ^  
  
jshell>
```

c)

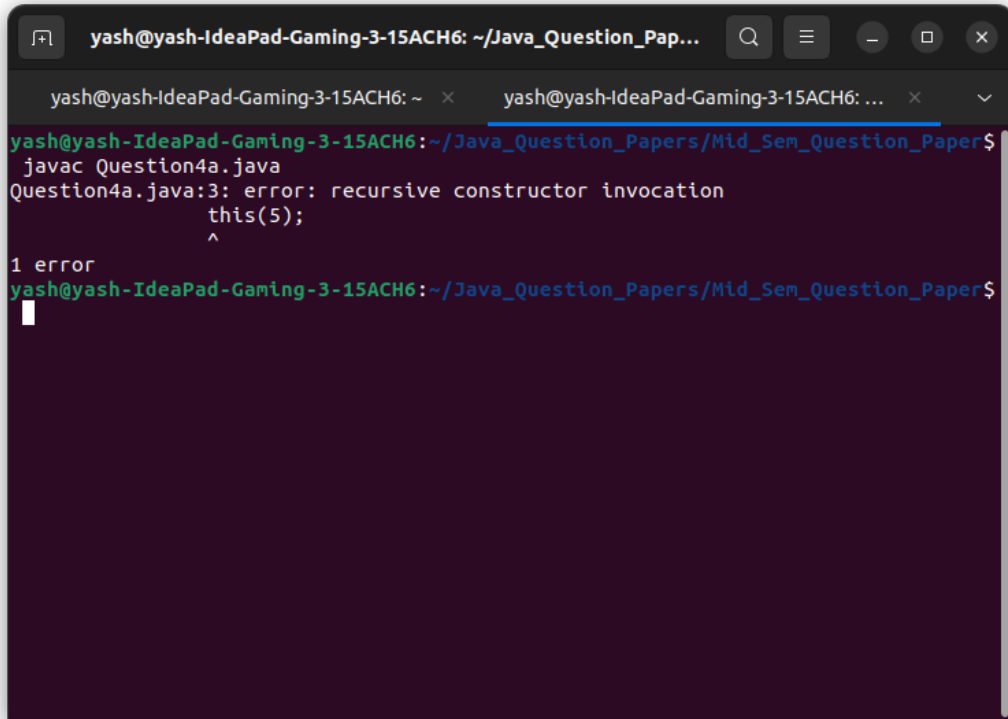


```
yash@yash-IdeaPad-Gaming-3-15ACH6: ~  
yash@yash-IdeaPad-Gaming-3-15ACH6: ~$ jshell  
Welcome to JShell -- Version 19.0.2  
For an introduction type: /help intro  
  
jshell> String s="sggs"  
s ==> "sggs"  
  
jshell> s[0]  
Error:  
array required, but java.lang.String found  
s[0]  
 ^--^  
  
jshell> 
```

Q3)

Latest version javac//preview/filename

Q4)a)



```
yash@yash-IdeaPad-Gaming-3-15ACH6: ~/Java_Question_Pap...
yash@yash-IdeaPad-Gaming-3-15ACH6: ~
yash@yash-IdeaPad-Gaming-3-15ACH6: ~/Java_Question_Papers/Mid_Sem_Question_Paper$
javac Question4a.java
Question4a.java:3: error: recursive constructor invocation
    this(5);
    ^
1 error
yash@yash-IdeaPad-Gaming-3-15ACH6: ~/Java_Question_Papers/Mid_Sem_Question_Paper$
```

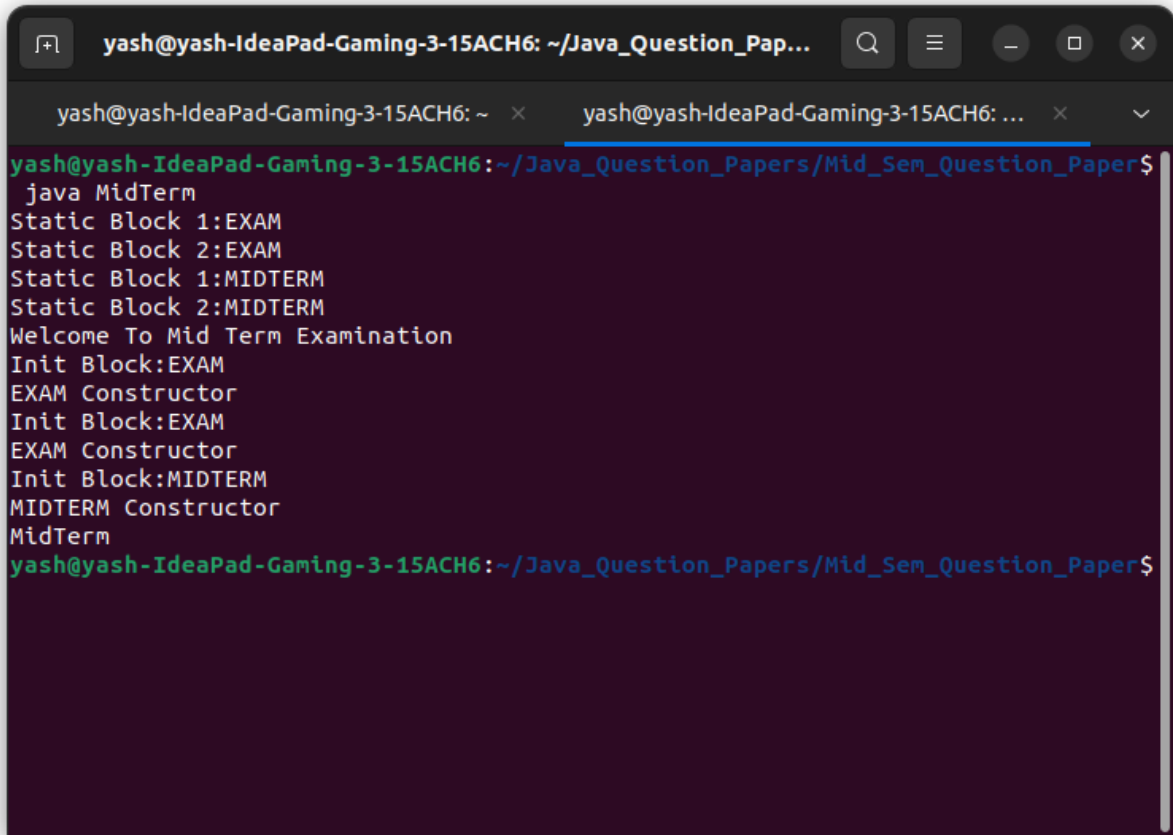
b)

```
yash@yash-IdeaPad-Gaming-3-15ACH6: ~/Java_Question_Pap...
yash@yash-IdeaPad-Gaming-3-15ACH6: ~ x yash@yash-IdeaPad-Gaming-3-15ACH6: ... x
yash@yash-IdeaPad-Gaming-3-15ACH6:~/Java_Question_Papers/Mid_Sem_Question_Paper$
javac Question4a.java
Question4a.java:3: error: recursive constructor invocation
    this(5);
    ^
1 error
yash@yash-IdeaPad-Gaming-3-15ACH6:~/Java_Question_Papers/Mid_Sem_Question_Paper$
javac Question4b.java
yash@yash-IdeaPad-Gaming-3-15ACH6:~/Java_Question_Papers/Mid_Sem_Question_Paper$
java Question
Examination:Mid
yash@yash-IdeaPad-Gaming-3-15ACH6:~/Java_Question_Papers/Mid_Sem_Question_Paper$
```

c)

[illegible]

d)



```
yash@yash-IdeaPad-Gaming-3-15ACH6: ~/Java_Question_Pap...
yash@yash-IdeaPad-Gaming-3-15ACH6: ~
yash@yash-IdeaPad-Gaming-3-15ACH6: ~/Java_Question_Papers/Mid_Sem_Question_Paper$
java MidTerm
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
yash@yash-IdeaPad-Gaming-3-15ACH6: ~/Java_Question_Papers/Mid_Sem_Question_Paper$
```

Q5)Three objects are created

Str2 and str5 are two objects as new keyword is giving new memory location .

Third object is str1 which is created in cache.