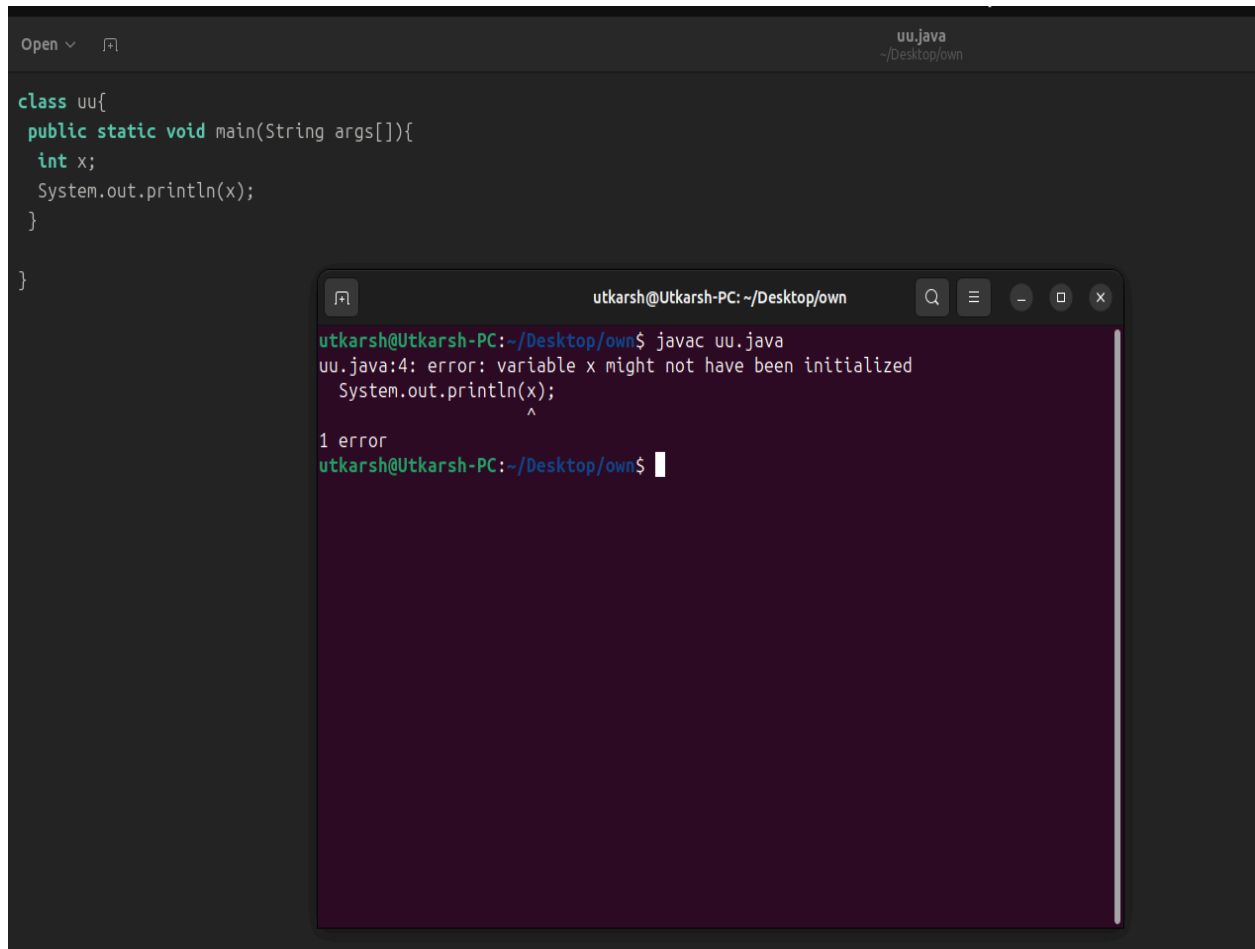


ISE-1

Q1)

a)Ans:

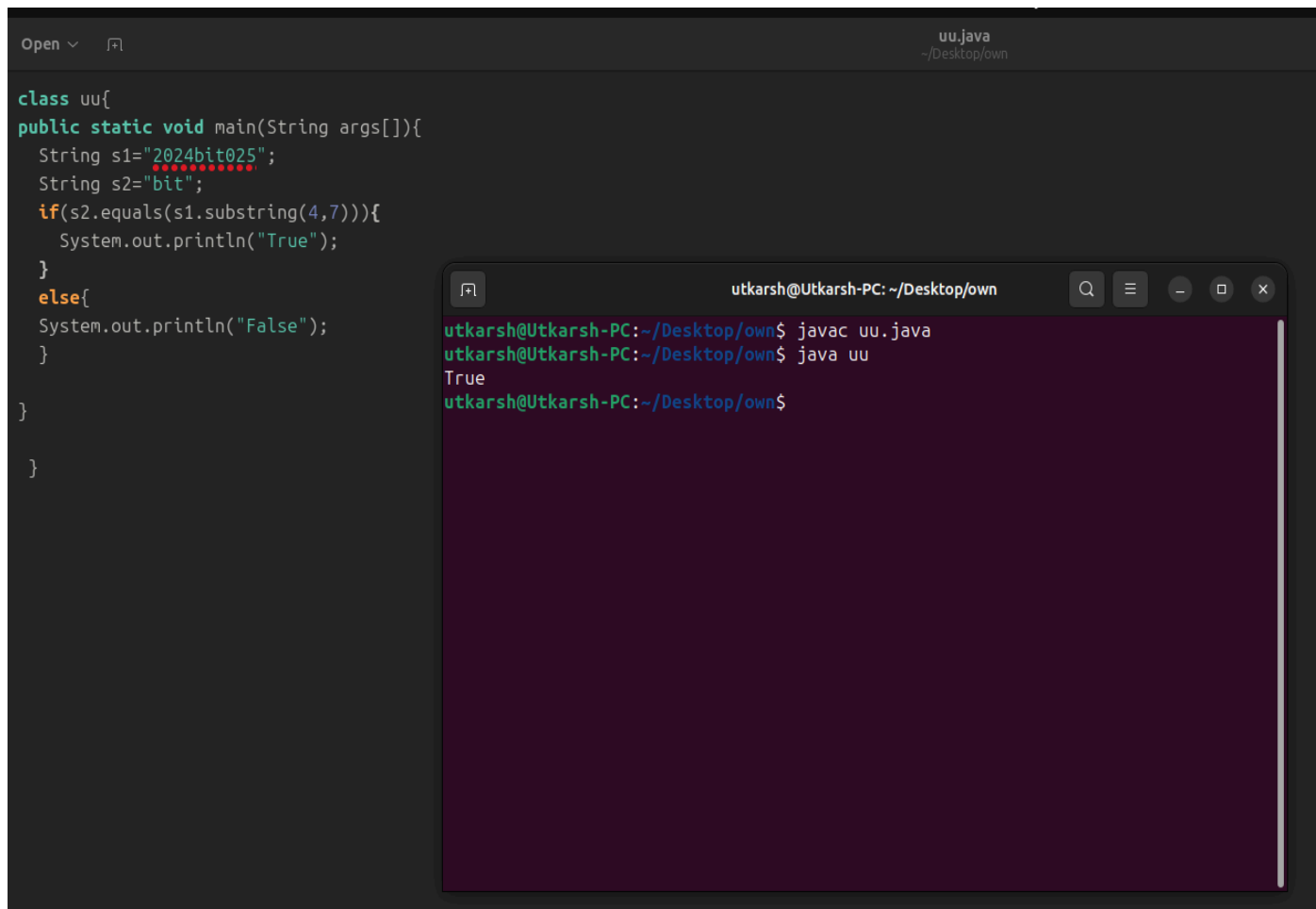


The screenshot shows an IDE with a dark theme. The top bar indicates the file is 'uu.java' located at '~/Desktop/own'. The editor displays the following Java code:

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

Below the editor is a terminal window titled 'utkarsh@Utkarsh-PC: ~/Desktop/own'. It shows the command 'javac uu.java' being executed, followed by the error message: 'uu.java:4: error: variable x might not have been initialized'. The error points to the 'x' in 'System.out.println(x);'. Below the error, it says '1 error' and the prompt 'utkarsh@Utkarsh-PC: ~/Desktop/own\$' is shown with a cursor.

b)Ans:



The image shows a screenshot of a code editor with a dark theme. On the left, a file named 'uu.java' is open, showing the following Java code:

```
class uu{
public static void main(String args[]){
    String s1="2024bit025";
    String s2="bit";
    if(s2.equals(s1.substring(4,7))){
        System.out.println("True");
    }
    else{
        System.out.println("False");
    }
}
}
```

On the right, a terminal window is open, showing the execution of the code:

```
utkarsh@Utkarsh-PC: ~/Desktop/own
utkarsh@Utkarsh-PC:~/Desktop/own$ javac uu.java
utkarsh@Utkarsh-PC:~/Desktop/own$ java uu
True
utkarsh@Utkarsh-PC:~/Desktop/own$
```

Q2)

a)Ans:

The static keyword in Java is **mainly used for memory management**. The static keyword in Java is used to share the same variable or method of a given class. The users can apply static keywords with variables, methods, blocks, and nested classes. The static keyword belongs to the class than an instance of the class.

b)Ans:

