Java.lang.

1. Write a java program that validates the user.
   1. User class has username,password,Security question and answer;
   2. UserDemo has a method validate(String username,String password) that checks if user is valid or not from a list of User.
   3. Hardcode values for User object sto test this.
   4. Write a method genPassword() that is called when user forgets password.
   5. The above method generates a random password in a combination of alphabets and numbers after displaying the security question and input of the answer.
2. In an event in a college 5 names are randomly picked from 10 names and these names are announced .(Note : The name that is picked once should not be picked again).
   1. Write a java program for the above.
3. able was I ere I saw elba is a palindrome.
   1. Write a Java program using StringBuffer class to test if it is a palindrome or not.
4. Observe the below code.
   1. int x=12;
   2. byte y=25;
   3. int z=y;
   4. double d=3.15
   5. float f=12.5;
   6. d=f
   7. char ch=x;

Change all the primitive types to wrapper types and observe the code.

5 **public** **class** TestVarLang {

//1

**public** **static** **void** m1(**int** x,**int** y)

{

System.***out***.println("add primitives");

}

//2

**public** **static** **void** m1(**long** x,**long** y)

{

System.***out***.println("add long");

}

//3

**public** **static** **void** m1(Integer x,Integer y)

{

System.***out***.println("add wrappers");

}

//4

**public** **static** **void** m1(**int**... x)

{

System.***out***.println("add varargs");

**int** sum=0;

**for**(**int** i:x)

sum+=i;

System.***out***.println(sum);

}

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

*m1*(10,20);

*m1*(**new** **int**[]{5,6,4,3});

}

}

In the above code guess the output.after commenting each method one by one.