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ID: 19101072 Sec: 1 (set-B)

Ans. to & No - 1

B

UDP stands for User Datagram Protocol,

When to use TCP: When you need every bit of data and early afford to lose even I packet. Such as for example, in case of download a file on st receiving mail, etc.

When to use UDPO When Meceiving every bit of data is not a concern. Rather, real-time transmission of data is important. Por example, Video Conferencing, media streaming, etc.

. sout angis bortom a ton signature.

Ans. togNo-2

a lib co de meceiving Anail, etc.

No, the program won't compile. Because, We are trying to overload the method "do Somethy" but methods can not be overloaded j'ust by changing the netwon type as netwon type is not a method signature.

Ethy, C

Design patterns are spetic specific structures of developing a program which can be neused and solves the most frequently occuring problems during software desingning. We use them to speed up the development process as these patterns are well-tested by enperienced object oriented software developers. of Name of 3 design patterns are:

- 1) factory pattern.
- 2) Singleton pattern
- 33) Facade pattern.

```
String [] words = Str. split("");
Map < String, Integer> m = new HashMap <> ();
Integer c = null;
for (int i=0; i< words.length(); ++i){
   c = m.get(words[i]),
    if(c = = null)?
       m.put (woods Ii], 1);
     Jelse [
       c++',
        m. put (words [i], c);
```

for (Map. Entry < String, Integer) S: m. entry Set ()) {
System. out. println (s. getkey () + " "#
+ s.getValue());

3

a

public interface Animal {

public void walk();

public void eat();

abstract class Pet {

provote String name = mull',
public String getName () {

Problem class Cat excepted to amplements minns

return name;

public void setName (String name) {

this name = name >

public rold play () {

1

9

```
public class Spider extends Pet implements Animal?
   public void eat () ?
   public void walk() { I aming - solution silving
 public class Cat entends Pet implements Animal ?
    public Cat (String name) {
                    = sman prints string
    public cat () {
    public void play () {
    Engine doing ceflawe ( & Ethich waver ) }
    public void eat () {
    public void walk () {
```

public class Fish entends Pet implements Animal { public Fish (String name) { public Fish() { 3 () Koly bior sudua System out printing (getilane () + public void eat() { public void walk () {

<u>b</u>

In pet class:

private string name = null;

public string getName() {

if (name == null) return " Crarfield";

return name;

?

public void SetName (String name) { this name = name; public void play () { system. out. println (getName () + " is playing now."); In Cat class? public Cat (String name) { setName (name), public void eat () { System.out. println ("getName()+" is eating now!"); public void walk () { System.out.println (getName() + " is walking now")

== mull) metinen " broatfield

In Fish Class:

public Fish (String name) {
setName (name)

3

public void walk() {

System.out. println ("Fish cannot walk");

In Spider classis

public void eat() {

System.out.pointln ("Spider is eating now.")

public void walk () {

System.out.println ("Animal with 8 legs is walking.");

3