



 Name.
 Shashank Bagda
 Year.
 2021/22

 Subject.
 OOP
 Class.
 2 TK1

 Semester
 2
 Roll No. 92100133020

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Subject Code: 01CT0105

Subject Name: Object Oriented Programming

B. Tech. Year - I (Semester II)

UNIT - 7, 8, 9, 10

Worksheet - 7

Enrollment No: <u>921 001 3 3020</u>

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Q-1: Differentiate

Answer:

AWT	SWING
Dava AMT is an API to develop GUI applications in	D swing is a purot of Java
Jara,	to creat various application.
AWT are heavy weighted.	Suring are light weighted.
is more than swing,	othe execution time of swing is less than AWT.
y) MVC pattern is not supported by AIN T.	4) MVC patteron is suppossted by swing.
5) ALLT provide comparatively less provenful components.	s) Swing provides more powerful components
. 1-	

Thread	Runnable				
i) Throcad is a class. It is used to core H a throcad.	Drunable is a functional introfuce which is used to				
2) It has multiple methods including start () & roun().	2) It has only abstract method.				
3) more memory required,	3) Less memory required.				
allowed in jura hence after a class extends Through class, it can not extend any others.	4) If a class is implementing the rannable interduce than yours class can extend another class				

Q-2: Explain two File and two Stream Classes.

Answer:

File classes

- The file class is an abstract represtation of file & directory pathname & can be either absolute welative.
- The file class is Java's represent a tiers of a file directory path name.

-> Constructoros

File (File parsent, strong child)

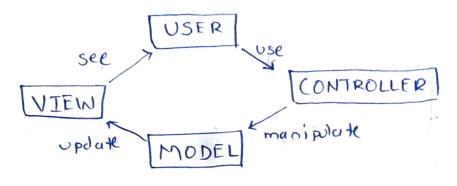
- coeletts a new tile instance from a pursent abstract pathname a child pathname strong,

File (strong Parthname)!

- crocates a new file instance by converting the given pathname stroing into an abstrat pathname.
- There are two basic types of streem defined by Java, culled by the stream & character stream.
- The byte system classes provide convenient mems fore handling input a output of bytes a characters streams provide a convenient mems fore handling input a output of characters prespectively.

Q-3: Explain MVC Architecture with Figure.

Answer:

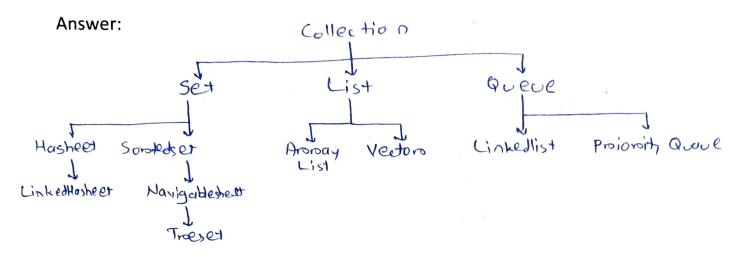


Application

MVC is known as anchitural pattern, which embodies throle parts model, view & controllers. To be more precise it devides the application into throse parts: 1) model & view 3) (ontrollers It's use for desktop graphical were interface but how it used for designing mobile apps.

Even through often it is known as design pattern but at most be wrong it we refer it only as a design pattern because design are used, to solve specific technical problem whereas architecture pattern is used for solving architectured of application.

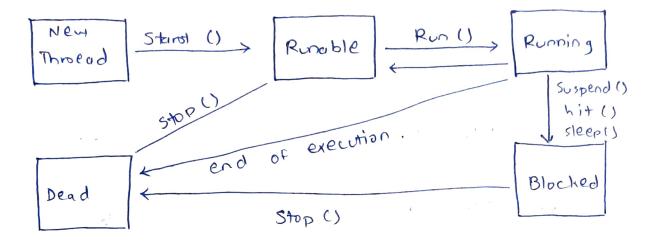
Q-4: Draw Figure of Collection Framework and Explain Set, List, Queue, Map, TreeSet.



- 1) Set: Set is a collection that can't contain duplicate elements it models the muthematical set of Abstraction.
- execute in time proportional to index value to some implementations.
- 3) quave; quave intentine prosent in join will package and extends collection intentine is used to hold elements about to be processed in first in (1)
- 4) Map: Map in java is an inflatace available in java, this
 4 it storces the data in key a values pairs,
 it does not allow duplicate keys.
- 5) treeget: Treeget is one of the most impossion implementations of society set intentuce in Java thus uses trope toro storage.

Q-5: Explain Thread Life Cycle with Figure.

Answer:



these all are states for our any threead in java.

- 1) New -> It colute thosad that has not yet stransked the execution.
- 2) Runnable -> Ready tors execution
- 3) Blocked Waiting to moniter lock to enter
- u) running & running means processon has allocated time slot to through for its execution
- 5) Dead State -> A throward dies one moves into dead state automatically when the throward done it's execution one complete it's task one when the stop () methed is called.

References							
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1	Java Black Book	ורו					
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5	Java Black Book	675					