Renactical Mo. 1 and 2? Setup PAGE NO. entropment and test using small programs Levelop Application using Java?

The specifical expected to develop the following 1. Set up Java Environment for executing Java 2 Execute simple programs by setting path Setup is your programming development comin-1. Using Command Prompt 2: Mily IDEs. Il Relevant course Outcomes Develop perograms using Object Oniented methodology I Practical Outcome Setup a Jawa programming whereIspenent.

PAGE No. To Resources used 5. No Mane set resource Broad Specification
2. Computer System Dell Saptop, i5-4-th
2. September 8 60B RAM.
2. September Jdk 17-0-2 Road Specification Dell Saptop, is with gen I bractical related questions:

1. Write intellation edirectory puth of your
clirectory?

- Cilprogram files java jdk 1702 bin 2. Drite value of path environment variables
5. program Ales java jdk 17.0,2 bin 3- Yest folders created after installation

The Goldens created after occaring installation

were bin, conf, include, jmods, legal, lib. I Main method is declared as static furtify.

It is adeclared as static so only one copy
caf main method is created and we don't
need any object to call the main method.

5. Program is moved with class containing made method. Justify.

It tells interpreter which class to load so it will load the iclass file. Write the coptions operanded by following JOK tools along with their use. -classpath class search path of directories and ziplier filest -- class-path & class search peth of directories and

zip (jax files > A; separated list of

directories , JAR Archives, and 218 anchives

-p < module path? - module-path < module path > ... A; separated list of directory is a directory of - upgrade-module-path (module path).

A; separated list of directives cerch directory in directory of modules that replace expradable modules in the runtime image. - add-modules < module path) [< module name? ...]

great modules to gesolve in addition to the

PAGE No. civilial module, < module name ? var also le ALL-DEFAULT, ALL-SYSTEM, ALL-MODULE-PATH. -- enable-native-acces (module name) & module name) modules are perferitted to perform restricted nature approximent & module name? sax also the ALL-UNIAMED. -- list modules i list absentable modules and exit -d (module name), -- describe-module rame) describe a module and soit -- dry- Jun :- Crocte UM and load main class lout alo not execute mais method. -validate-modules: Validate all modules and exit It can be useful for finding conflicts and withor errors with modules wer the module path -D<name>= < value> :- Det a system property -verbose: Eclass I module legalini]

enable verbors output for stream dubytem

-version i- Print product version for the error system and suit. -- version :- Print product version to the output Storean and exit. - showversion: - Point product version to the continue stream and continue -- show-module-resolution, '- Show module mesolution

PAGE No. contput during setup. -7-h-help 1-Print this help message to the -- help :- Print this help message to the output Atrean. -x:- Print help con centre aptions to the unon stream -hep-entra :- Print chelp on centra ceptions to the contput Stream. -eal: <packagename de \$ 1: < class name } -enableassestions (: 2 package name ? ... lixilars name) disable assertions with specified agranularity -esal-enablesystemassertions: - unable system -dsal-disable systemassertions -agent hib: < libnam => (=< options)? :- Lond navigate cogent library (librarie), eg. -agentlibijdup -agent path: xpath name > [= options] load native agent library lay full pathrame. -javaagent: 2 jarpath > (=xoptions) land Java programming language agent. -splash: ximage path> , show splesh server with specified image

PAGE No. @ argument files i como con moro argument files containing coptions. - disable - @ files !- prevent further argument file appointion expansion. -- enable-preview :- ollow classes to depend as preview factory of their release to specify as - une exercise de - < nome > < value > 2. javac > aption care -Officereme): - eneed coptions and filenames from files. -Akey[=value]: Options to pass to com anotation processors. -- add-modules < module > (, module >)* Root modules to cresolve in addition to the third initial modules car all modules on the module poth of < module > is ALL-MODULE-PATH -- boot-class-path (path) -boot classpath (path) Inverside location of bootstrap class files. -- class-path spath >, - classpath spath >, - ep spath> speedly where to find over class files and anotation perocessors. -didirectory? 1- specify where to find place generated class files.

PAGE No. -depotecation :- Output source locations where colepsecated API's care used. -- enable -preview & Enable preview language features. To be used in conjuncation with either - sarce war - telease - encoding rencoding !- Specify wharester amoding - endossiddies (dies) '- Override election efection · -ds path - extdirs < dirs > :- Overraide bocated location of enstalled extensions. -g: I lines, vars, source ?: Jenerate conly some -ginone :- generate na debugging info. -h <directory > : Spenty where to place generated votive beader files. -help, -help, -? :- Paint Als help message -- help resetra, -x 1- Print help on extra aptions. -implicit: I none, class & specify whether or not to generate class -Jeflag > 1- At Pass (flag) whereathy to the greentième system. -- limit-modoles rmodule > (module >)* Timit the universe of rebenvable modules.

PAGE No. -mode em ode les (, < modeles) + , - m, 2 modeles ; check to Compile only specified modules scheck the timestamps. -- module-peth spoth 2, - proth? specify where to find application modules -- module -rource - path (module- source - path) Speedly where to find apput source files for multiple modules -- module - version (version) specify version of modules that are dring compiled. -nough !- generate no warrings. -parameters !- generate metadata you reflection on method parametery. -procianone, only Control whether annotation processing and or compilation is done -processor relassi} (xdass2), <elass3)...] Mores of the constation processors to sun; bypasses default descovery process -- processor -module-path spath specify a module thath where to find Connotation processors -- processor - path & path & processor path 2 path? specify where to fond constation persuspores.

PAGE No. -profile sprofiles &- wheek that API used is cavailable in the specified profile. -- release excleased Compile for the specified Java SE release. - S sdirectory) - Specify where to find place generated source files. source ¿ release), -source « release) Provide source compatibility with the specified JAVA SF. -- source- path spoths, - sourcepath spoths specify where to find daput source files - system ZidK/hone / Override location of s esystem modules. - target (release), -target (release) generate when files suitable for the specified JAVA SE release. -- up grade - module - path spaths Overvide location of upgradable modules -verbose voutput messages about what the rempilor es doing. -- version, - version 1- Version lafo. -Worsor 1- Terminate compilation if warnings 3. Javadac 2 Called Read aptions and filenames, from file.

PAGE No. - add-modules smodules (smodules)* -bootclessporth spath? - Override location of platform class files used for non-mole modular incleases -breakiterator: Compute ofirst scaterce with -class-path<path> -cp <path> -classpath <path> -doctet (class) 1- generate contput via idealed -doctet path & path > 1 - Specify where to find -- enable-preview -encoding enemel - Source file encoding mone - exclude < pkglist? Specific distrate package to oxidede - expand-requires «value» Instructs tool to expand the set of modulate be documented. By default, would the modules igiver o eseplicitly en command line vill be adocumented. A value of "transitive" will addi-- tionally include all "negines toransitive" extependencies of those modules. A value of " all" will include all dependencies of those -extdire edistists Override location of installed extensions -- help, -- help, -?, -h -- help-extoc, -x

PAGE No. -J < + (95) -- limit - modules (module) (, xmodule) * -locale (name) !- Youale to be used, eg, en-US cor en US_WIN. -- module < module > (pmodule >) * Document the specified modules. -- module - path < path>, -p < path) specify where to fond application modules. -- modele-source-peth xpath> Specify where to find input source files -package Show parkage sported / public types and members. For It named modules, show all pub. - ages and all module details. -private :- Show all private types and members For named modules, pockuges and cell module detaile. -protected: - Show protected (public types and modules show exported packages and the modules API. -public :- Show only public types and members. For named modules, show exported perk. -ages and the Modules API. -quiet :- De not show status message. 1-- release < release > !- Provide source computibility

PAGE NO. -- show-members < value) Specifies which members (fields, methods, etc.) will be documented where value can be one of "public" protocted " "package" as "private". The default is "printerled" which will show public and protected manters "public" will show only public members, "package" will show public, protected and package members and "pairate" will show all members show-module-contents (value) Show specify the documentation igreenelapity us module declaration -- show-packages svalued Specifies which & module package will be documented -- show-types Kvalues? Aprilies which types (icharses, interfaces, etc.) will be document. Acme as show members -- source (telease), - source «release) -- source-poth rpath> specify where to find source files. - supplickages (suppliglist) Specify subpockages to reunserely load--- system (jdk) upgorde, - module-path, spath?

PAGE No. -verbose :- Output message at what javadac is -- Version :- Prent version date.
- Wessex :- Report un error if ling warnings Provided by standard doctor.

-add-style sheet < File>
Additional stylesheet file for the generated -- allow-s #t/pt-in-comments -acthor: - Include Ocuthor paragraphs. -bottom & html-code ?: - Include Notton text for each page - charset scharsets: - Charset of consplittory
viewing of generated documentation. -d « directory ? :- Destination Destination directory for eartput files. -docending enamer: - Specify the character encoding for the output. -doctile chtml-code? !- Include title for the everview page. -excludefilessubdix (mame)!... Exclude any des files subdirectories with giver name. 13

PAGE NO. - Souter Entratcode !- Include footen for each page. -group < name > 291> : 292> ... your specified elements in inversion -header < html-code> -helpfile & file >: - Include while that help while links to -h+m15: generate html5 contput. -- javafor, - javafx 1- Enable javafor yuntion - Keywords: - Include HTML mets dags noth pakage class and member info -link surl's !- create links to javadoe output - linkoffline Rurla? 200/2? !- York to does at cools using package list at 200122 - link source & generate source de HTML. -- main-stylesheet (file) - stylesheet file & file) File to whomas style of the generated documentation. -nocomment :- Supposes description rand tags generate only declarations repreted !- Do not viaclude @ deprecated info. -nodeprecatedist :- Do not generate deperecated - nohelp: - Do not ignerate help link. I holy dex i - Do not stante gerrate, index

-noneubar: - Da not igenerate navigation bar.
-no-platform- 1; nkg! - Da not igenerate platform documentation -noqualifier &name 19: Knamer Lee Educa list of qualifiers. -nosince: - Do not include Osince info. - notime stamp 1-De not shelvede Alden timestamp. -notree - Do not generate class historichy -- overide-methods (details summery) I ocument coverrides methods in the detail ar erview Rfiles - overview Rfiles - serial wearn : - yenerate warning about @ serial tags. -- Since < += lease > (< release >)* Document new and departed API in the expedied encloses. -- Since-label (text) :- Perovide text to use in the cheeding of the "New APT" page - sourcetab (tab length) - specify the number of spaces each tab takes up in the source -splitindex: - split index into I file per letter -tag {name}: < locations ?: header> Specify argument wastom dags. - taglet 1 - The fully qualified name of the taglet to spegister.

-taglelpath -taglespans -taplespans top tent for each -version :- Include @version paragraphs -windowtile stext : provider window title forth documentation 2. Viet different versiche ef JdK.

JOK 1.0, jdK 1.1, J23E 1.2, 1.3, 1.4, 5.0, Jeva SF 7, 8 3. Lest the setup using similar programs public static void main (String angs[]) System. out. paintly ("Hello Java Woold!");