* Abstraction: How we hide information from outside.
* Inheritance: Gather or find details from parents. Code usability
* Polymorphism: One way we can do multiple ways
* Java:
  + Java 7 was complete objected oriented
  + Java 8 added functional programming as well
* Features of java
  + Object oriented programming
  + Platform independent. Code compiled in windows and generate byte code. Then we can run that byte code in linux, apple etc.
  + Secure: Byte code cannot be read by human
  + Performance
  + Multiple threads
  + Concurrency
* Component of java
  + JDK(Java development kit):
    - Write code, package code, comment
  + JRE :
    - Where java byte code can be executed
  + JVM
    - Provides run time environment where byte codes can be executed
* Difference between core and advanced:
  + Core Java:
    - What we studied in univ
  + Advanced Java:
    - All servlets, JSP, collection, advanced data structure
* ADVANCED JAVA:
* Servlets:
  + Class that Creates dynamic web pages after submitting the request
  + Web server will process our request
  + Browser understands only HTML
  + Once the form is submitted, its value is processed in web server
    - User sends request to the webserver and waits for reply
  + Servlet is two way communication
* Different features of Servlets:
  + Platform independent:
  + Secure
  + Light – less memory
  + JSP(Java server pages):
    - Creates dynamic web pages
    - Plays model in MVC
* Lifecycle of servlet:
  + Init:
    - Creating the servlet
    - Executes only once in the lifetime of servlet
  + Service:
    - Actual method where the processing is done
    - Has GET or POST methods through which we can process our information:
      * GET – Not secure
      * POST – Secure
  + Destroy:
    - After processing, we use Destroy to destroy objects
* CGI:
  + Platform dependent
  + Can be written in any language
* JSP:
  + Two parts in HTML
    - Static
    - Dynamic
  + Combines static HTML with java core that makes your page dynamic
  + First converted into servlet then executed in JVM
* JSP scriptlets:
  + If you write HTML then you want to add java , we can achieve it by extension
  + Deployed into server then, executed
  + Written inside of body tag
* JSP expressions:
  + A = 2+3
  + We can achieve the above logic using JSP expression
* JSP implicit objects:
  + Request:
    - When submitting the form, you want to do something with request object
  + Response
  + Out
* JSP forward action: