```
CriteriaBuilder criteriaBuilder = entityManager.getCriteriaBuilder();
                                                                                                        CITCLITAQUELYS. / CITCLITAQUELY, NOOCSIASK/ 1000/ 1
CriteriaQuery<Task> criteriaQuery = criteriaBuilder.createQuery(Task.class);
                                                                                                    List<Predicate> predicateList = new ArrayList<>();
Root<Task> root = criteriaQuery.from(Task.class);
                                                                                                          Write Logic Query in Between
                                                                Predicate[] predicateArr = new Predicate[predicateList.size()];
                                                                Predicate predicate = criteriaBuilder.and(predicateList.toArray(predicateArr));
                        CriteriaBuilder class is present in
                        the javax.presistence.*;
    Root class is class on
                                                                criteriaQuery.where(predicate);
    which table we appy
                                                                                                                        End of Method
    the criteria guery
  taskHelper.prepareTaskCriteriaQuery(taskSearchCriteria, criteriaBuilder, criteriaQuer
  //set order
  taskHelper.setOrder(taskSearchCriteria, root, criteriaQuery, criteriaBuilder);
  TypedQuery<Task> typedQuery = entityManager.createQuery(criteriaQuery);
                                                                                 Run the guery
  typedQuery.setFirstResult((int) pageable.getOffset());
  typedQuery.setMaxResults(pageable.getPageSize());
  long count = taskHelper.criteriaForCount(taskSearchCriteria);
   Page<Task> taskPage = new PageImpl<>(typedOuery.getResultList(), pageable,count);
                                                                                                  Get Result
if (CoreUtil.isNonEmpty(taskSearchCriteria.getRoleId())) {
     predicateList.add(root.join("assignee").in(getUsersList(taskSearchCriteria.getRoleId())));
                                                                                                                      In this we get the List<Integer> of the
                                                                                                                      Roleld so we need to apply the filter on
                                                                                                                      the mulitselect dropdown o Role
    if (CoreUtil.isNonEmpty(taskSearchCriteria.getStatusList())) {
       predicateList
                                                                                                                      method-> in()
               .add(root.get("workflow").get("status").get("statusId").in(taskSearchCriteria.getStatusList()));
    if (CoreUtil.isNonEmpty(taskSearchCriteria.getAccountComplexityIdList())) {
       predicateList.add(
              root.get("workflow").get("accountComplexity").in(taskSearchCriteria.getAccountComplexityIdList()));
```

```
if (CoreUtil.isNonEmpty(taskSearchCriteria.getEmailRequest())
        && CoreUtil.isNonEmpty(taskSearchCriteria.getEmailRequest().getSubjectEmail())) {
    predicateList.add(criteriaBuilder.like(root.get("workflow").get("emailRequest").<String>get("subjectEmail"),
            "%" + taskSearchCriteria.getEmailRequest().getSubjectEmail() + "%"));
     AS we need to search the data on the basis of Email Subject Line ....By using Like()
     Similary find the employee who name start with 'A;
     criteriaBuilder.like(root.get('employee').get('empName'),"A%"));
 if (CoreUtil.isNonEmpty(taskSearchCriteria.getDueDate())) {
     LocalDate localDate = CoreUtil.convertUtcToIstZone(taskSearchCriteria.getDueDate());
                                                                                                              getDueDate()-> begDate,EndDate
     LocalDateTime beginning = localDate.minusDays(1).atTime(LocalTime.MAX);
                                                                                                              By USing the Between()
     LocalDateTime end = localDate.atTime(23, 59, 59);
     predicateList.add(criteriaBuilder.between(root.get("workflow").get("dueDate"), beginning, end));
     List<Predicate> predicateList = new ArrayList<>();
   if (CoreUtil.isNonEmpty(taskSearchCriteria.getWorkType()) && WorkTypeEnum.Additional Rework.getId() =
       logger.info("taskSearchCriteria.getRequestType(): " + taskSearchCriteria.getWorkType());
       predicateList.add(criteriaBuilder.isTrue(root.get("workflow").get("additionalRework")));
                                                                                                     Filter ->isActive ..(column (boolean )in Task
      if (!UIGridEnum.Archive_Task_Box.name().equals(taskSearchCriteria.getGridName())) {
                                                                                                     table)
          Predicate isActive = criteriaBuilder.equal(root.get("isActive"), true);
          Predicate isFinalTask = criteriaBuilder.equal(root.get("isFinalTask"), true);
                                                                                                     By using the Equal method()
          Predicate result = criteriaBuilder.or(isActive, isFinalTask);
```

predicateList.add(result);

Find the task of reviewer which is not completed as yet. equal() and isNull() ...creiteriaBuilder And() also.

predicateList.add(criteriaBuilder.greaterThanOrEqualTo(root.get("workflow").get("processorAllocationDate"),"2021-01-01|"));

This is fetch the data on the basis of Alloaction Date whose has assgin task after 01 jan 2021

<n extends="" number=""> Expression<n></n></n>	abs(Expression <n> x) Create an expression that returns the absolute value of its a</n>		
<y> Expression<y></y></y>	all(Subquery <y> subquery) Create an all expression over the subquery results.</y>		
Predicate	and(Expression <boolean> x, Expression<boolean> Create a conjunction of the given boolean expressions.</boolean></boolean>		
Predicate	<pre>and(Predicate restrictions)</pre> Create a conjunction of the given restriction predicates.		
<y> Expression<y></y></y>	<pre>any(Subquery<y> subquery) Create an any expression over the subquery results.</y></pre>		
CompoundSelection <object[]></object[]>	<pre>array(Selection<?> selections) Create an array-valued selection item.</pre>		
Order	asc(Expression x)  Create an ordering by the ascending value of the expression		
<n extends="" number=""> Expression<double></double></n>	avg(Expression <n> x)  Create an aggregate expression applying the avg operation.</n>		
<pre><y comparable<?="" extends="" super="" y="">&gt; Predicate</y></pre>	between(Expression extends Y v, Expression Create a predicate for testing whether the first argument is</td		
<pre><y comparable<?="" extends="" super="" y="">&gt; Predicate</y></pre>	between(Expression extends Y v, Y x, Y y)  Create a predicate for testing whether the first argument is		

Order	$\label{eq:desc} \begin{split} &\text{desc}(\texttt{Expression}\ x) \\ &\text{Create an ordering by the descending value of the expression.} \end{split}$
<n extends="" number=""> Expression<n></n></n>	<pre>diff(Expression<? extends N> x, Expression<? exter Create an expression that returns the difference between its an</pre></pre>
<n extends="" number=""> Expression<n></n></n>	<pre>diff(Expression<? extends N> x, N y) Create an expression that returns the difference between its au</pre>
<n extends="" number=""> Expression<n></n></n>	<pre>diff(N x, Expression<? extends N> y) Create an expression that returns the difference between its an</pre>
Predicate	disjunction() Create a disjunction (with zero disjuncts).
Predicate	<pre>equal(Expression<?> x, Expression<?> y) Create a predicate for testing the arguments for equality.</pre>
Predicate	<pre>equal(Expression<?> x, Object y) Create a predicate for testing the arguments for equality.</pre>
Predicate	exists(Subquery subquery)  Create a predicate testing the existence of a subquery result.

<pre><y comparable<?="" extends="" super="" y="">&gt; Predicate</y></pre>	<pre>greaterThan(Expression<? extends Y> x, Expression<? extends Y> y) Create a predicate for testing whether the first argument is greater than the second.</pre>
<pre><y comparable<?="" extends="" super="" y="">&gt; Predicate</y></pre>	<pre>greaterThan(Expression<? extends Y> x, Y y) Create a predicate for testing whether the first argument is greater than the second.</pre>
<pre><y comparable<?="" extends="" super="" y="">&gt; Predicate</y></pre>	<pre>greaterThanOrEqualTo(Expression<? extends Y> x, Expression<? extends Y> y)</pre> Create a predicate for testing whether the first argument is greater than or equal to the second.
<pre><y comparable<?="" extends="" super="" y="">&gt; Predicate</y></pre>	<pre>greaterThanOrEqualTo(Expression<? extends Y> x, Y y)</pre> Create a predicate for testing whether the first argument is greater than or equal to the second.
<pre><x comparable<?="" extends="" super="" x="">&gt; Expression<x></x></x></pre>	<pre>greatest(Expression<x> x) Create an aggregate expression for finding the greatest of the values (strings, dates, etc).</x></pre>

<y> Expression<y></y></y>	<pre>nullif(Expression<y> x, Y y) Create an expression that tests whether its argumen</y></pre>
<t> Expression<t></t></t>	<pre>nullLiteral(Class<t> resultClass) Create an expression for a null literal with the given</t></pre>
Predicate	or(Expression <boolean> x, Expression<booleane a="" boolean="" disjunction="" expression<="" given="" of="" td="" the="" x=""></booleane></boolean>
Predicate	or (Predicate restrictions)  Create a disjunction of the given restriction predicate

<t> CriteriaBuilder.In<t></t></t>	<pre>in(Expression<? extends T> expression) Create predicate to test whether given expression is contain</pre>
<c collection<?="" extends="">&gt; Predicate</c>	<pre>isEmpty(Expression<c> collection) Create a predicate that tests whether a collection is empty.</c></pre>
Predicate	<pre>isFalse(Expression<boolean> x) Create a predicate testing for a false value.</boolean></pre>
<e,c collection<e="" extends="">&gt; Predicate</e,c>	<pre>isMember(E elem, Expression<c> collection) Create a predicate that tests whether an element is a memb</c></pre>
<e,c collection<e="" extends="">&gt; Predicate</e,c>	isMember(Expression <e> elem, Expression<c> collection contains a member of the predicate that tests whether an element is a member of the contains a member of the contains</c></e>
<c collection<?="" extends="">&gt; Predicate</c>	<pre>isNotEmpty(Expression<c> collection) Create a predicate that tests whether a collection is not emp</c></pre>
<e,c collection<e="" extends="">&gt; Predicate</e,c>	<pre>isNotMember(E elem, Expression<c> collection) Create a predicate that tests whether an element is not a mean</c></pre>
<e,c collection<e="" extends="">&gt; Predicate</e,c>	isNotMember(Expression <e> elem, Expression<c> co</c></e>
Predicate	isNotNull(Expression x)  Create a predicate to test whether the expression is not null
Predicate	isNull(Expression x)  Create a predicate to test whether the expression is null.
Predicate	<pre>isTrue(Expression<boolean> x)</boolean></pre>

<pre><y comparable<?="" extends="" super="" y="">&gt; Predicate</y></pre>	lessThan(Expression extends Y x, I Create a predicate for testing whether the first
<pre><y comparable<?="" extends="" super="" y="">&gt; Predicate</y></pre>	lessThan(Expression extends Y x, 'Create a predicate for testing whether the first
<pre><y comparable<?="" extends="" super="" y="">&gt; Predicate</y></pre>	lessThanOrEqualTo(Expression extended create a predicate for testing whether the first</td
<pre><y comparable<?="" extends="" super="" y="">&gt; Predicate</y></pre>	lessThanOrEqualTo(Expression extended create a predicate for testing whether the first</td

Predicate	like(Expression <string> x, Expression<string> pattern, Expressio Create a predicate for testing whether the expression satisfies the given pattern.</string></string>
Predicate	<pre>like(Expression<string> x, String pattern) Create a predicate for testing whether the expression satisfies the given pattern.</string></pre>
Predicate	<pre>like(Expression<string> x, String pattern, char escapeChar)</string></pre> Create a predicate for testing whether the expression satisfies the given pattern.
Predicate	like(Expression <string> x, String pattern, Expression<character> Create a predicate for testing whether the expression satisfies the given pattern.</character></string>

<n extends="" number=""> Expression<n></n></n>	<pre>max(Expression<n> x) Create an aggregate expression applying the numerical max operati</n></pre>
<pre><n extends="" number=""> Expression<n></n></n></pre>	min(Expression <n> x)  Create an aggregate expression applying the numerical min operati</n>
Expression <integer></integer>	<pre>mod(Expression<integer> x, Expression<integer> y) Create an expression that returns the modulus of its arguments.</integer></integer></pre>
Expression <integer></integer>	mod(Expression <integer> x, Integer y)  Create an expression that returns the modulus of its arguments.</integer>

Predicate	<pre>notEqual(Expression<?> x, Object y) Create a predicate for testing the arguments for inequality.</pre>
Predicate	<pre>notLike(Expression<string> x, Expression<string> pattern) Create a predicate for testing whether the expression does not satisfy the given pattern.</string></string></pre>
Predicate	<pre>notLike(Expression<string> x, Expression<string> pattern, char escapeCl Create a predicate for testing whether the expression does not satisfy the given pattern.</string></string></pre>
Predicate	notLike(Expression <string> x, Expression<string> pattern, Expression<cl Create a predicate for testing whether the expression does not satisfy the given pattern.</cl </string></string>
Predicate	<pre>notLike(Expression<string> x, String pattern) Create a predicate for testing whether the expression does not satisfy the given pattern.</string></pre>