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## 10 Annexure A

### Sample code listing - Ajax

```
<?php
include("dbconnection.php");
if(isset($_REQUEST["fromT"]) && isset($_REQUEST["untilT"])){
    $from = $_REQUEST["fromT"];
    $until = $_REQUEST["untilT"];
    $query1 = "SELECT msg_id from details where (mili_time>='$from' && mili_time<='$until')";
    mysqli_select_db($conn,"manjitha0717_db");
    $res = mysqli_query($conn,$query1);
    $ret = 0;
    $sids = array();
    if($res){
        while($row=mysqli_fetch_array($res,MYSQLI_ASSOC)){
            $sid = $row['msg_id'];
            array_push($sids,$sid);
        }
    }
    foreach ($sids as $sid) {
        mysqli_select_db($conn,"genny");
        $query2 = "select * from details where msg_id='$sid'";
        $res = mysqli_query($conn,$query2);
        $row=mysqli_fetch_array($res,MYSQLI_ASSOC);
        if($row['state'] == 'on'){
            $ret++;
        }
    }
    echo $ret*5 ;
    exit();
}
```

```
if(isset($_REQUEST["fromDTime"]) && isset($_REQUEST["untilTime"])){//give two milisecond vlues to $from and $until
```

```
    $from = $_REQUEST["fromDTime"];
```

```
    $until = $_REQUEST["untilTime"];
```

```
$query1 = "SELECT msg_id from details where (mili_time>='$from' && mili_time< '$until')";
```

```
mysqli_select_db($conn,"manjitha0717_db");
```

```
$res = mysqli_query($conn,$query1);
```

```
$ret = 0;
```

```
$sids = array();
```

```
if($res){
```

```
    while($row=mysqli_fetch_array($res,MYSQLI_ASSOC)){
```

```
        $id = $row['msg_id'];
```

```
        array_push($sids,$id);
```

```
    }
```

```
 }
```

```
foreach ($sids as $id) {
```

```
    mysqli_select_db($conn,"manjitha0717_db");
```

```
    $query2 = "select * from details where msg_id='$id'";
```

```
    $res = mysqli_query($conn,$query2);
```

```
    $row=mysqli_fetch_array($res,MYSQLI_ASSOC);
```

```
    if($row['state'] == 'on'){
```

```
        $ret++;
```

```
    }
```

```
 }
```

```
echo $ret*5;
```

```
exit();
```

```
}
```

```
if(isset($_REQUEST["fromMTime"]) && isset($_REQUEST["untilTime"])){//give two milisecond vlues to $from and $until
```

```
    $from = $_REQUEST["fromMTime"];
```

```

    $until = $_REQUEST["untilTime"];
$query1 = "SELECT msg_id from details where (mili_time>='$from' && mili_time< '$until')";
mysqli_select_db($conn,"manjitha0717_db");
$res = mysqli_query
($conn,$query1);
$ret = 0;
$sids = array();
if($res){

while($row=mysqli_fetch_array($res,MYSQLI_ASSOC)){
    $sid = $row['msg_id'];
    array_push($sids,$sid);
}
}
foreach ($sids as $sid) {
    mysqli_select_db($conn,"manjitha0717_db");
    $query2 = "select * from details where msg_id='$sid'";
    $res = mysqli_query($conn,$query2);
    $row=mysqli_fetch_array($res,MYSQLI_ASSOC);
    if($row['state'] == 'on'){
        $ret++;
    }
}
echo $ret*5;
exit();
}
?>

```

# 11 Annexure B

## Sample records

Time duration Minutes between two records	System Voltage	System current	Gen running Status
5	47	37	On
5	48	35	On
5	49	19	On
5	49	12	On
5	49	12	On
5	50	12	On
5	50	12	On
5	50	11	On
5	50	12	On
5	51	11	On
5	51	12	On
5	51	11	On
5	51	11	On
5	51	11	On
5	51	11	On
5	51	11	On
5	51	11	On
5	51	9	On
5	51	9	On
5	51	9	On
5	51	9	On
5	51	9	On
5	51	9	On
5	51	8	On
5	51	9	On
5	52	8	On
5	52	8	On
5	52	9	On
5	52	8	On
5	52	8	On
5	52	7	On
5	52	7	On
5	53	6	On
5	53	6	On

5	53	6	On
5	52	6	On
5	52	6	On
5	53	6	On
5	53	6	On
5	53	6	On
5	53	6	On
5	53	6	On
5	53	6	On
5	53	6	On
5	54	6	Off
5	50	14	Off
5	50	14	Off
5	50	13	Off
5	50	14	Off
5	50	14	Off
5	50	13	Off
5	50	14	Off
5	50	13	Off
5	50	14	Off
5	50	14	Off
5	49	14	Off
5	49	13	Off
5	49	13	Off
5	49	13	Off
5	49	14	Off
5	49	12	Off
5	49	14	Off
5	49	13	Off
5	49	12	Off
5	48	13	Off
5	48	14	Off
5	47	39	On
5	50	37	On
5	50	35	On
5	50	21	On
5	50	18	On
5	50	12	On
5	50	12	On
5	50	12	On

5	50	12	On
5	50	11	On
5	50	11	On
5	50	11	On
5	50	10	On
5	51	10	On
5	51	10	On
5	51	11	On
5	51	10	On
5	51	10	On
5	51	9	On
5	51	9	On
5	51	9	On
5	52	9	On
5	52	9	On
5	52	9	On
5	52	9	On
5	52	9	On
5	52	9	On
5	52	9	On
5	52	9	On
5	53	7	On
5	53	7	On
5	53	7	On
5	53	8	On
5	53	7	On
5	53	7	On
5	53	7	On
5	53	6	On
5	53	6	On
5	53	6	On
5	53	6	On
5	53	6	On
5	53	6	On
5	53	6	On
5	53	6	On
5	53	6	On
5	53	6	On
5	53	6	On
5	54	6	Off
5	52	14	Off
5	51	14	Off
5	51	13	Off
5	51	13	Off
5	50	13	Off
5	50	14	Off

5	50	13	Off
5	50	13	Off
5	50	13	Off
5	50	13	Off
5	49	14	Off
5	49	13	Off
5	48	14	Off
5	48	14	Off
5	47	35	On
5	51	35	On
5	49	27	On
5	49	18	On
5	49	17	On
5	49	17	On
5	49	12	On
5	49	11	On
5	49	11	On
5	50	10	On
5	50	11	On
5	50	9	On
5	50	9	On
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5	51	9	On
5	51	7	On
5	51	7	On
5	51	7	On
5	51	7	On
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5	53	6	On
5	53	6	On



5	53	6	On
5	53	9	On
5	53	7	On
5	53	7	On
5	53	6	On
5	53	6	On
5	52	6	On
5	54	6	On
5	54	6	On
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5	54	6	On
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5	49	13	Off
5	49	14	Off
5	49	13	Off
5	49	14	Off
5	49	14	Off
5	49	13	Off
5	50	13	On
5	49	13	On

5	48	38	On
5	49	33	On
5	49	23	On
5	49	19	On
5	49	12	On
5	49	11	On
5	49	11	On
5	49	11	On
5	49	12	On
5	49	12	On
5	50	11	On
5	50	11	On
5	50	11	On
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5	53	7	On
5	53	7	On
5	53	6	On
5	54	6	On
5	54	16	On
5	54	16	On
5	54	15	On
5	54	17	On
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5	52	15	Off
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5	49	29	On
5	49	21	On
5	49	18	On
5	49	13	On
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5	49	13	On
5	49	14	On
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5	49	14	On
5	50	14	On
5	50	12	On
5	50	13	On
5	50	13	On
5	50	12	On
5	50	13	On

5	50	11	On
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