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COURSE: BLOCKCHAIN PROGRAMMING

SECTION: "B"

DATE: 14-DEC-2020

PROJECT MANAGEMENT TOOL with MODULES:

This file save as Assignee.js

```
class Assignee{
constructor(name ,title,status){
this.name= name
this.title= title
this.status= status
this.Assigneepay='50000pkr'
static alpha = 'xyz'
static lol(){
   console.log('assignee should be consistant and passionate')
   ChangeStatus(value){
     this.status= value
     return this.status
 AssigneePay(){
     return this. Assigneepay
 AssigneeDetails(){
     console.log("name :"+this.name)
     console.log("title :"+this.title)
     console.log("status "+this.status)
// Assignee.lol()
module.exports= Assignee
```

This file save as task.js

```
var Assignee = require('./Assignee.js')

// define tasks class
class tasks extends Assignee{
    constructor(tname,tdays,AssigneeId,taskstatus){
        super();

    this.tname = tname
        this.tdays = tdays

    this.taskstatus= taskstatus
        this.AssigneeId= AssigneeId
    }
    changeTaskStatus(value) {
        console.log('\nTask status changed to: ' + (this.taskstatus = value ))
}
salary(){
        console.log(" Assignee salary")
        return super.AssigneePay()
}
taskPercentage(tadays,compdays){
        var per = tadays/compdays * 100;
        return per;
}
module.exports= tasks
```

This file save as project.js

```
var tasks = require('./task.js')
   constructor(name, type, days, tasks, dayscompleted) {
       this.tasks = tasks
       this.status = "in progress";
       this.days = days
       this.name = name
       this.dayscompleted = dayscompleted
   projectDetails() {
       console.log("Name :" + this.name)
       console.log("Type: " + this.type)
       console.log("completed Days " + this.days)
       console.log("total Days " + this.dayscompleted)
       console.log(super.salary())
   getTaskPercentage(taskid) {
       var task = this.tasks.get(taskid);
       var taskDays = task.tdays;
       var per = super.taskPercentage(taskDays, this.dayscompleted);
       return 'The Percentage of ' + task.tname + ' is : ' + per;
   print() {
       return this.tasks
   totaltasks() {
       return this.tasks.size
   daysRemaining() {
       var remainingday = this.dayscompleted - this.days
       return remainingday
   status_() {
       var j = 0;
       for (let [key, value] of this.tasks.entries()) {
           if (value.taskstatus == "done") {
               console.log(key + ' = ' + value.taskstatus)
           else if (value.taskstatus == "inprogress") {
               console.log(key + ' = ' + value.taskstatus)
               console.log(key + ' = ' + value.taskstatus)
       console.log(`Completed task ${i}`)
       console.log(`Inprogress task ${j}`)
       console.log(`Not started task ${k}`)
       if (i == this.tasks.size) {
           console.log("project completed")
```

```
else if (i < this.tasks.size) {</pre>
          console.log("Project is inprogress")
          console.log("project not started")
      else {
          console.log("not define")
  CompletedTasks() {
      console.log("Completed task")
      for (let [key, value] of this.tasks.entries()) {
          if (value.taskstatus == "done") {
              console.log(key + ' = ' + value.taskstatus)
      console.log('\n----')
  PendingTasks() {
      console.log("Pending task")
      for (let [key, value] of this.tasks.entries()) {
          if (value.taskstatus != "done") {
              console.log(key + ' = ' + value.taskstatus)
      console.log('\n----')
   TaskAssigneee(taskid) {
      var task = this.tasks.get(taskid);
      var taskSAssignee = task.AssigneeId;
      taskSAssignee.AssigneeDetails()
      return 'The above Detail of Assignee of this task ' + task.tname + ' : ';
  changeTask(taskid, task) {
      console.log(this.tasks.get(taskid, task))
  DeleteTask(value) {
      this.tasks.delete(value)
   AddTask(key, value) {
      this.tasks.set(key, value)
  ChangeAssignee(taskid, value) {
      this.tasks.get(taskid).AssigneeId = value;
nodule.exports = project
```

This file save as main.js

All the Module require here:

```
var Assignee = require('./Assignee.js')
var tasks = require('./task.js')
var project = require('./project.js')
var hamza= new Assignee('Hamza khan','finance Manager','active')
var Ali= new Assignee('ali khan','marketing Manager','active')
var Mustafain = new Assignee('Mustafain khan','web designer','fresher')
var owais= new Assignee('Owais khan',' graphic Designer','active')
console.log("Assignee Detail ")
console.log(owais)
var task1 = new tasks('architecture',5,hamza,'inprogress')
var task2 = new tasks('development_1',10,Ali,'notstarted')
var task4 = new tasks('development_3',15,owais,'inprogress')
var blockchain_task = new Map();
blockchain_task.set('1',task1);
blockchain_task.set('2',task2);
blockchain_task.set('3',task3);
blockchain_task.set('4',task4);
var realstate_blockchain = new project('blockchain','software',15,blockchain_task,'50')
realstate_blockchain.projectDetails()
console.log(realstate_blockchain.getTaskPercentage('2'))
console.log(realstate blockchain.TaskAssigneee('1'))
```

Output:

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```
Assignee Detail
```

```
Assignee {
    name: 'Owais khan',
    title: ' graphic Designer',
    status: 'active',
    Assigneepay: '50000pkr'
}
Name:blockchain
Type: software
completed Days 15
```

total Days 50

Assignee salary

50000pkr

The Percentage of development_1 is: 20

name :Hamza khan

title :finance Manager

status active

The above Detail of Assignee of this task architecture: