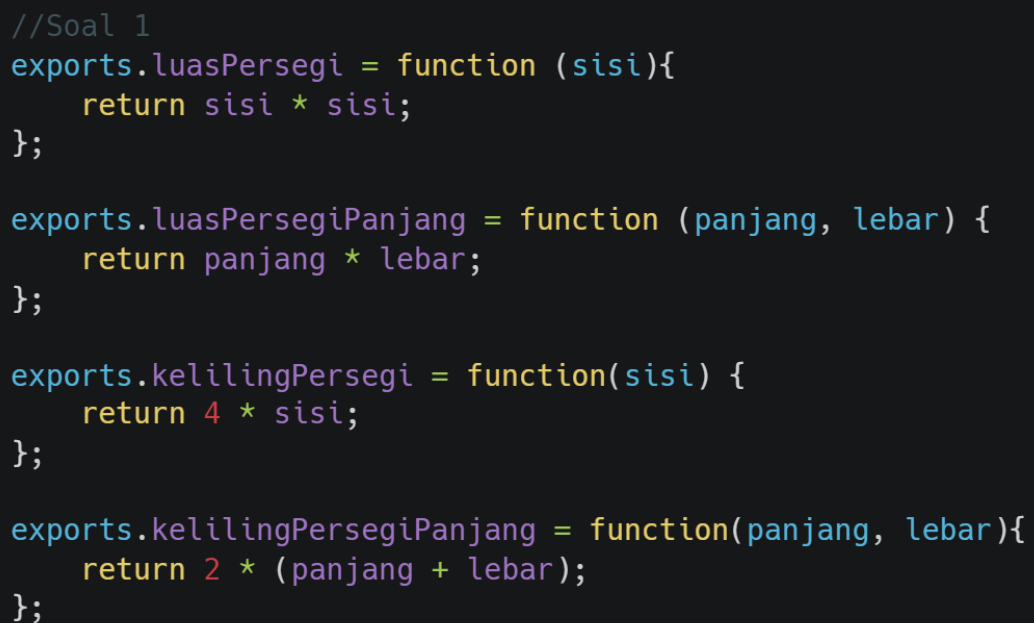


HomeWork - Week 7 - Node JS & Restfull API

Dzulfikar Fathin A

soal 1 :

- membuat rumus keliling dan luas persegi dan persegi panjang di file keliling&luas.js




```
//Soal 1
exports.luasPersegi = function (sisi){
  return sisi * sisi;
};

exports.luasPersegiPanjang = function (panjang, lebar) {
  return panjang * lebar;
};

exports.kelilingPersegi = function(sisi) {
  return 4 * sisi;
};

exports.kelilingPersegiPanjang = function(panjang, lebar){
  return 2 * (panjang + lebar);
};
```

- panggil dalam file soal1.js menggunakan require



```
// Soal 1
const rumus = require('./Keliling&Luas');

const kelilingPersegi = rumus.kelilingPersegi(5);
const kelilingPersegiPanjang = rumus.kelilingPersegiPanjang(8,5);
const luasPersegi = rumus.luasPersegi(5);
const luasPersegiPanjang = rumus.luasPersegiPanjang(10,7);

console.log("Keliling Persegi =", kelilingPersegi);
console.log("Keliling Persegi Panjang =", kelilingPersegiPanjang);
console.log("Luas Persegi =", luasPersegi);
console.log("Luas Persegi Panjang =" ,luasPersegiPanjang);
```

Soal 2 :

- membuat file bernama soal2.js dan membuat logika agar membuat file baru bernama log.txt yang berisi copy homework github yang berada di soal.

```

// Soal 2
const fs = require('fs');
const payload = `
03/22 08:54:24 INFO :.....rsvp_flow_stateMachine: state RESVED, event T1OUT
03/22 08:54:24 TRACE :.....rsvp_action_nHop: constructing a PATH
03/22 08:54:24 TRACE :.....flow_timer_start: started T1
03/22 08:54:24 TRACE :.....rsvp_flow_stateMachine: reentering state RESVED
03/22 08:54:24 TRACE :.....mailslot_send: sending to (9.67.116.99:0)
03/22 08:54:35 TRACE :.....rsvp_event_mapSession: Session=9.67.116.99:1047:6 exists
24
03/22 08:54:35 EVENT :.....api_reader: api request SENDER_WITHDRAW
03/22 08:54:35 INFO :.....rsvp_flow_stateMachine: state RESVED, event PATHTEAR
25
03/22 08:54:35 TRACE :.....traffic_action_oif: is to remove filter
03/22 08:54:35 INFO :.....qosmgr_request: Ioctl to remove reservation successful
03/22 08:54:35 INFO :.....rpapi_Reg_UnregFlow: RSVPRemActionName: Entering

03/22 08:54:35 INFO :.....rpapi_Reg_UnregFlow: ReadBuffer: Entering

03/22 08:54:35 INFO :.....rpapi_Reg_UnregFlow: ReadBuffer: Exiting

03/22 08:54:35 INFO :.....rpapi_Reg_UnregFlow: RSVPRemActionName: Result = 0

03/22 08:54:35 INFO :.....rpapi_Reg_UnregFlow: RSVPRemActionName: Exiting

etc.
`;

fs.writeFile('log.txt', payload, (err, data) => {
  if ( err ) { console.error(err) };

  console.log("Data successfully writed")
});

fs.readFile('log.txt', 'utf-8', (err, data) => {
  if ( err ) { console.error(err) };

  console.log("Data :", data);
});

```

Dokumentasi :

```
1 // Soal 1
2 exports.luasPersegi = function (sisi){
3   return sisi * sisi;
4 };
5
6 exports.luasPersegiPanjang = function (panjang, Lebar) {
7   return panjang * Lebar;
8 };
9
10 exports.kelilingPersegi = function(sisi) {
11   return 4 * sisi;
12 };
13
14 exports.kelilingPersegiPanjang = function(panjang, Lebar){
15   return 2 * (panjang + Lebar);
16 };
```

```
1 // Soal 1
2 const rumus = require('./Keliling&Luas');
3
4 const kelilingPersegi = rumus.kelilingPersegi(5);
5 const kelilingPersegiPanjang = rumus.kelilingPersegiPanjang(8,5);
6 const luasPersegi = rumus.luasPersegi(5);
7 const luasPersegiPanjang = rumus.luasPersegiPanjang(10,7);
8
9 console.log("Keliling Persegi =", kelilingPersegi);
10 console.log("Keliling Persegi Panjang =", kelilingPersegiPanjang);
11 console.log("Luas Persegi =", luasPersegi);
12 console.log("Luas Persegi Panjang =", luasPersegiPanjang);
```

```
1 const fs = require('fs');
2 const payload = `
3 03/22 08:54:24 INFO :.....rsvp_flow_stateMachine: state RESVED, event T10UT
4 03/22 08:54:24 TRACE :.....rsvp_action_nHop: constructing a PATH
5 03/22 08:54:24 TRACE :.....flow_timer_start: started T1
6 03/22 08:54:24 TRACE :.....rsvp_flow_stateMachine: reentering state RESVED
7 03/22 08:54:24 TRACE :.....mailslot_send: sending to (9.67.116.99:0)
8 03/22 08:54:35 TRACE :.....rsvp_event_mapSession: Session=9.67.116.99:1047:6 exists
9 24
10 03/22 08:54:35 EVENT :.....api_reader: api request SENDER_WITHDRAW
11 03/22 08:54:35 INFO :.....rsvp_flow_stateMachine: state RESVED, event PATHTEAR
12 25
13 03/22 08:54:35 TRACE :.....traffic_action_oif: is to remove filter
14 03/22 08:54:35 INFO :.....qosmgr_request: Ioctl to remove reservation successful
15 03/22 08:54:35 INFO :.....rpapi_Reg_UnregFlow: RSVPRemActionName: Entering
16
17 03/22 08:54:35 INFO :.....rpapi_Reg_UnregFlow: ReadBuffer: Entering
18
19 03/22 08:54:35 INFO :.....rpapi_Reg_UnregFlow: ReadBuffer: Exiting
20
21 03/22 08:54:35 INFO :.....rpapi_Reg_UnregFlow: RSVPRemActionName: Result = 0
22
23 03/22 08:54:35 INFO :.....rpapi_Reg_UnregFlow: RSVPRemActionName: Exiting
24
25 03/22 08:54:35 INFO :.....rpapi_Reg_UnregFlow: flow[sess=9.67.116.99:1047:6,
26 source=9.67.116.98:8000] unregistered from CLCat2
27 03/22 08:54:35 EVENT :.....qosmgr_response: DELRESP from qosmgr, reason=0, qoshandle=0
28 03/22 08:54:35 INFO :.....qosmgr_response: src=9.67.116.98:8000 dst=9.67.116.99:1047 proto=6
29 03/22 08:54:35 TRACE :.....traffic_reader: tc response msg=3, status=1
30 26
31 03/22 08:54:35 TRACE :.....rsvp_action_nHop: constructing a PATHTEAR
32 03/22 08:54:35 TRACE :.....flow_timer_stop: stopped T1
```

```
56 03/22 08:54:53 INFO :.....term_policyAPI: APITerminate: Entering
57
58 03/22 08:54:53 INFO :.....term_policyAPI: APITerminate: Exiting
59
60 03/22 08:54:53 INFO :.....term_policyAPI: Policy API terminated
61 03/22 08:54:53 INFO :.....dreg_process: deregistering process with the system
62 03/22 08:54:53 INFO :.....dreg_process: attempt to dereg (ifaaddrg_byaddr)
63 03/22 08:54:53 INFO :.....dreg_process: rc from ifaaddrg_byaddr rc =0
64 03/22 08:54:53 INFO :.....terminator: process terminated with exit code 0
65 `
66
67 fs.writeFile('log.txt', payload, (err, data) => {
68   if ( err ) { console.error(err) };
69
70   console.log("Data successfully wrote")
71 });
72
73 fs.readFile('log.txt', 'utf-8', (err, data) => {
74   if ( err ) { console.error(err) };
75
76   console.log("Data :", data);
77 });
78
```

```
1 // Soal 1
2 const rumus = require('./Keliling&Luas');
3
4 const kelilingPersegi = rumus.kelilingPersegi(5);
5 const kelilingPersegiPanjang = rumus.kelilingPersegiPanjang(8,5);
6 const luasPersegi = rumus.luasPersegi(5);
7 const luasPersegiPanjang = rumus.luasPersegiPanjang(10,7);
8
9 console.log("Keliling Persegi =", kelilingPersegi);
10 console.log("Keliling Persegi Panjang =", kelilingPersegiPanjang);
11 console.log("Luas Persegi =", luasPersegi);
12 console.log("Luas Persegi Panjang =" ,luasPersegiPanjang);
```

```
user@DESKTOP-02TS08Q MINGW64 ~/Desktop/Rakamin/Week - 7/Homework - week 7
$ node soal1.js
Keliling Persegi = 20
Keliling Persegi Panjang = 26
Luas Persegi = 25
Luas Persegi Panjang = 70
$
```

```
70 console.log("Data successfully wrote")
71 });
72
73 fs.readFile('log.txt', 'utf-8', (err, data) => {
74   if ( err ) { console.error(err) };
75
76   console.log("Data :", data);
77 });
78
```

```
user@DESKTOP-02TS08Q MINGW64 ~/Desktop/Rakamin/Week - 7/Homework - week 7
$ node soal2.js
Data successfully wrote
Data :
03/22 08:54:24 INFO :.....rsvp_flow_stateMachine: state RESVED, event T10UT
03/22 08:54:24 TRACE :.....rsvp_action_nHop: constructing a PATH
03/22 08:54:24 TRACE :.....flow_timer_start: started T1
03/22 08:54:24 TRACE :.....rsvp_flow_stateMachine: reentering state RESVED
03/22 08:54:24 TRACE :.....mailslot_send: sending to (9.67.116.99:0)
03/22 08:54:35 TRACE :.....rsvp_event_mapSession: Session=9.67.116.99:1047:6 exists
24
03/22 08:54:35 EVENT :.....api_reader: api request SENDER_WITHDRAW
03/22 08:54:35 INFO :.....rsvp_flow_stateMachine: state RESVED, event PATHTEAR
25
03/22 08:54:35 TRACE :.....traffic_action_oif: is to remove filter
03/22 08:54:35 INFO :.....qosmgr_request: Ioctl to remove reservation successful
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03/22 08:54:35 INFO :.....rpapi_Reg_UnregFlow: ReadBuffer: Entering
03/22 08:54:35 INFO :.....rpapi_Reg_UnregFlow: ReadBuffer: Exiting
```

sekian dan terimakasih.