

[10주차 - 강의 예제]

● 수업 깃허브 경로

<https://github.com/topmentor/JSClass>

● 실습파일 제출 요령

1) 실습파일들은 1개 파일로 압축해서 첨부 (파일명은 학번.zip)

-Node-Red 실습은 flow JSON파일로 제출

2) **topmentor@daum.net** 이메일 작성

. 제목은 '학번 - 이름 x주차 실습'으로 지정

ex) [2021432345 홍길동] 10주차 실습

ex1.html //////////////////////////////////////

```
<script src="https://code.jquery.com/jquery-1.12.4.min.js"></script>
```

```
$.ajax({
  type : "GET",
  url  : "http://test.soxcorp.co.kr:31880/testapi",
  data : { name: "soxcorp", age: 4 },
  dataType : "text",
  success : function (data) {
    document.write(data);
    console.log(JSON.parse(data));
  },
  error : function () {
    alert("통신실패!!!!");
  }
});
```

● Node JS, Node-Red 설치

1. Node JS 설치

<https://nodejs.org/ko/> 에서 설치파일 다운로드 후 설치

. 설치 확인 : 커맨드 창에서

```
node --version && npm --version
```

2. Node-Red 설치

(커맨드 창에서)

```
npm install -g --unsafe-perm node-red
```

3. Node-Red 실행

(커맨드 창에서)

```
node-red
```

4. 브라우저에서 접속

<http://127.0.0.1:1880>

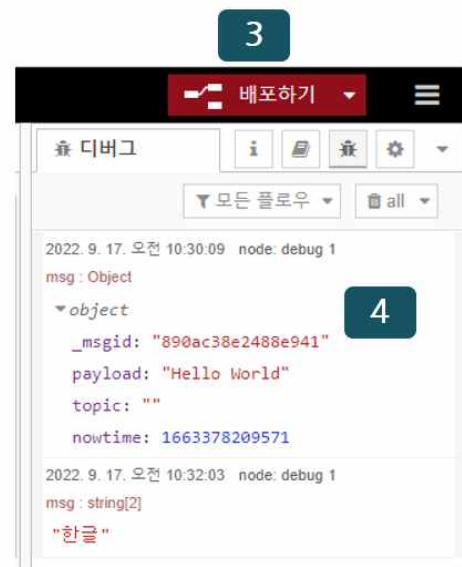
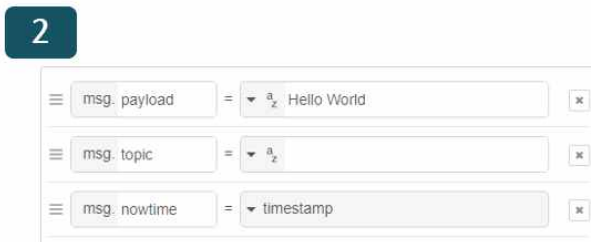
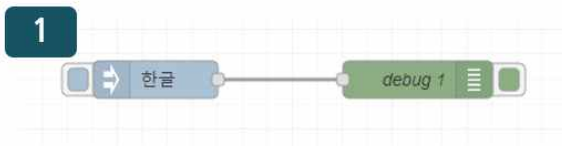
1. 노드 배치 + 노드 연결

2. 노드 속성 편집

3. '배포하기' 클릭

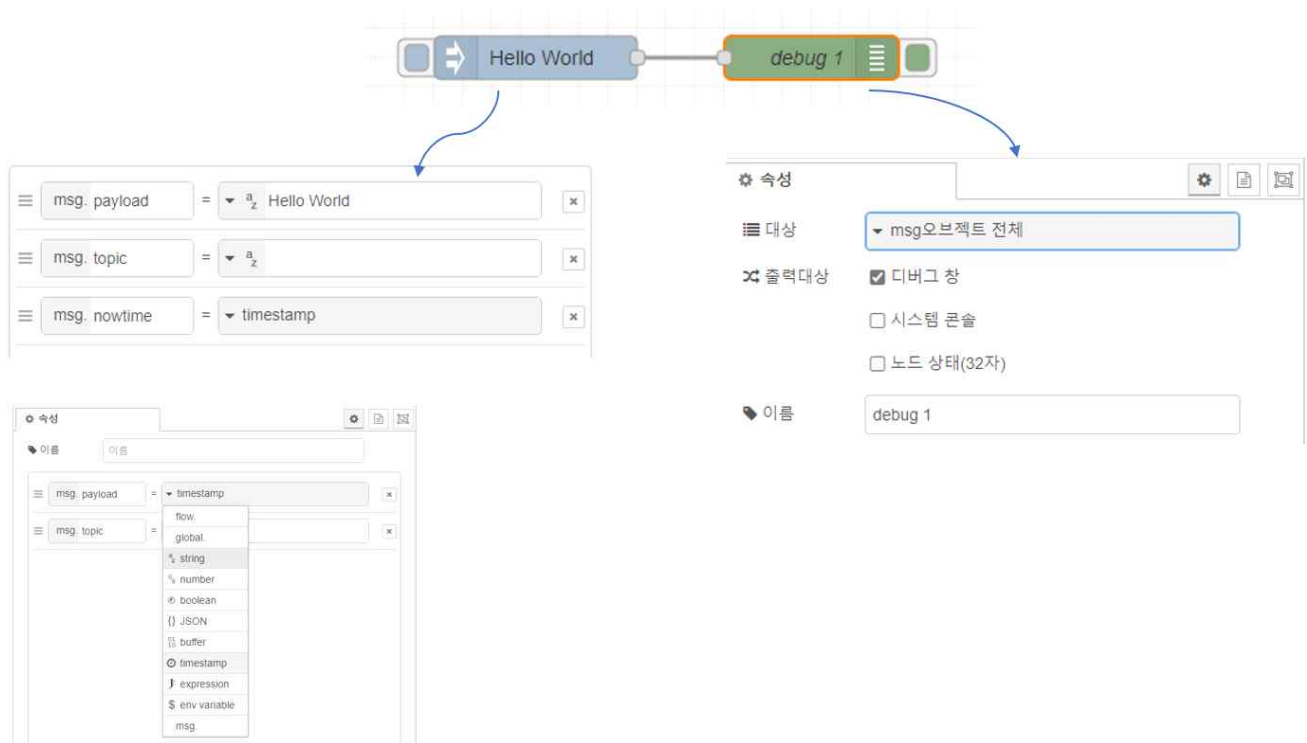
4. 디버거 창에서 확인

* API 확인 시에는 브라우저에서 확인



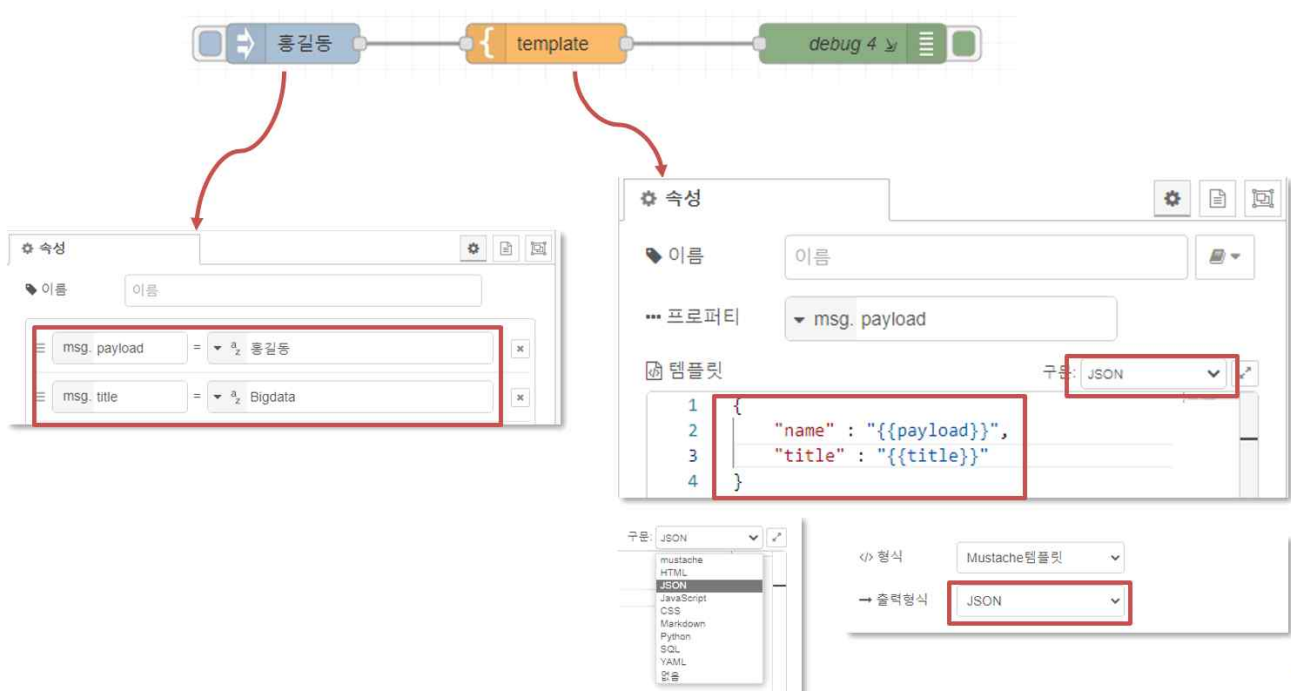
Node-Red 실습 - 1 //////////////////////////////////////

- inject 노드, debug노드



Node-Red 실습 - 2 //////////////////////////////////////

- inject 노드, template노드, debug노드



Node-Red 실습 - 3 //////////////////////////////////////

- inject 노드, function노드, debug노드

function의 노드 수정

삭제 취소 완료

속성

이름 function 1

Setup On Start 코드 On Stop

```
1 var timestr = new Date(msg.payload).toLocaleString("ko-KR");
2
3 msg.payload = timestr;
4
5 return msg;
```

[프로그래밍 실습 문제]

1. 다음의 REST API를 호출하는 Ajax 프로그램을 만드시오

http://make-random.com/MakeRandom/api/userInfo.get

```
[{"website": "QUALCOMM.info", "address": {"geo": {"lng": 126.81674853184143, "lat": 35.28418184243914}, "address": "충청남도 공주시 반죽동 4"}, "phone": "(82)13-3760-5666", "name": "은보리", "company": {"bs": "store", "domain": "neural-net", "name": "SOX"}, "id": 1, "email": "E8trng@Novo.ai"}, {"website": "Walmart.coffee", "address": {"geo": {"lng": 125.62291425039102, "lat": 36.89789072274139}, "address": "경상남도 창원시 마산합포구 자산동 66"}, "phone": "(82)13-4715-5715", "name": "진외호", "company": {"bs": "store", "domain": "solution", "name": "Facebook"}, "id": 2, "email": "CgVbI@Abbot.go.kr"}, {"website": "Wells.tv", "address": {"geo": {"lng": 125.46024476343364, "lat": 36.86933643266923}, "address": "충청남도 천안시 동남구 유항동 84"}, "phone": "(82)13-1685-6557", "name": "형현출", "company": {"bs": "e-markets", "domain": "solution", "name": "CI"}, "id": 3, "email": "thvZjL@Cisco.kr"}, {"website": "Comcast.cloud", "address": {"geo": {"lng": 124.20170228742047, "lat": 36.85715269014307}, "address": "부산광역시 중구 신창동 4가 10"}, "phone": "(82)13-5831-5617", "name": "인태산", "company": {"bs": "store", "domain": "solution", "name": "Hyundai"}, "id": 4, "email": "oPiUjI@Glead.io"}, {"website": "International.blog", "address": {"geo": {"lng": 125.43538880799157, "lat": 35.043614776786676}, "address": "광주광역시 중구 내남동 38"}, "phone": "(82)13-1568-2230", "name": "포터블", "company": {"bs": "e-markets", "domain": "staff", "name": "Facebook"}, "id": 5, "email": "ns292@InfoSys.info"}, {"website": "Mondelēz.site", "address": {"geo": {"lng": 126.2036952372969, "lat": 35.200381177605465}, "address": "전라남도 목포시 함평동 1가 80"}, "phone": "(82)13-1135-5554", "name": "아수영", "company": {"bs": "store", "domain": "gis", "name": "Yahoo"}, "id": 6, "email": "VUAIX9@Sonyvn"}, {"website": "Bank.me", "address": {"geo": {"lng": 125.57011066769633, "lat": 35.56846964645156}, "address": "충청북도 공주시 성남동 49"}, "phone": "(82)13-5002-3584", "name": "기태수", "company": {"bs": "e-markets", "domain": "gis", "name": "Facebook"}, "id": 7, "email": "CPIg@Walmartonline"}, {"website": "Wellsicu", "address": {"geo": {"lng": 124.46434374631218, "lat": 36.432315965552974}, "address": "부산광역시 중구 송정동 5가 79"}, "phone": "(82)13-6335-3971", "name": "음민형", "company": {"bs": "store", "domain": "staff", "name": "CI"}, "id": 8, "email": "DMZES4M@International.ai"}, {"website": "Snap.show", "address": {"geo": {"lng": 124.81725825092474, "lat": 35.37777852621741}, "address": "서울특별시자차시 보합동 53"}, "phone": "(82)13-9344-7478", "name": "장세리", "company": {"bs": "e-markets", "domain": "solution", "name": "Logitec"}, "id": 9, "email": "CEvXd@Autodesk.blog"}, {"website": "Duke.show", "address": {"geo": {"lng": 126.33549367919986, "lat": 35.786055791097816}, "address": "충청북도 청주시 동덕구 남문동 66"}, "phone": "(82)13-4831-1889", "name": "양종현", "company": {"bs": "store", "domain": "neural-net", "name": "Microsoft"}, "id": 10, "email": "ytlUp@Equinx.info"}, {"website": "Snowflake.online", "address": {"geo": {"lng": 126.98853456200112, "lat": 36.03168170915426}, "address": "충청남도 공주시 신암동 3"}, "phone": "(82)13-6734-4607", "name": "호보림", "company": {"bs": "store", "domain": "solution", "name": "Logitec"}, "id": 11, "email": "bEl@GlavoSmithKline.jp"}, {"website": "Intel.go.kr", "address": {"geo": {"lng": 126.1115559071506, "lat": 36.33079508722021}, "address": "인천광역시 중구 항동 1가 20"}, "phone": "(82)13-4229-4888", "name": "국채우", "company": {"bs": "store", "domain": "solution", "name": "Facebook"}, "id": 12, "email": "6Zxg@Broadcom.io"}, {"website": "United.email", "address": {"geo": {"lng": 126.5609953234926, "lat": 36.3019998325347}, "address": "충청북도 청주시 동덕구 신천동 45"}, "phone": "(82)13-9055-2041", "name": "라세현", "company": {"bs": "e-markets", "domain": "solution", "name": "Microsoft"}, "id": 13, "email": "37S84Z@Oracle.online"}, {"website": "Colgate-Palmolive.io", "address": {"geo": {"lng": 126.38540009610417, "lat": 36.653896307654724}, "address": "인천광역시 중구 해안동 4가 32"}, "phone": "(82)13-8316-5127", "name": "국전재", "company": {"bs": "e-markets", "domain": "staff", "name": "SOX"}, "id": 14, "email": "7DV8@Union.or.kr"}, {"website": "Texas.cloud", "address": {"geo": {"lng": 126.68862776704509, "lat": 36.60586938206769}, "address": "충청남도 아산시 읍내동 70"}, "phone": "(82)13-6380-8020", "name": "염가람", "company": {"bs": "store", "domain": "solution", "name": "Google"}, "id": 15, "email": "SfEk@Sonyemail"}, {"website": "Intuit.go.kr", "address": {"geo": {"lng": 126.57358102421395, "lat": 36.17650249368596}, "address": "전라남도 목포시 대성동 1"}, "phone": "(82)13-3267-3883", "name": "신우호우", "company": {"bs": "e-markets", "domain": "staff", "name": "Google"}, "id": 16, "email": "cJFSnE@Takeda.com"}, {"website": "Wellsuwork", "address": {"geo": {"lng": 126.5632558524639, "lat": 36.77001797356097}, "address": "부산광역시 중구 남포동 9가 95"}, "phone": "(82)13-3372-9897", "name": "염예준", "company": {"bs": "e-markets", "domain": "neural-net", "name": "SOX"}, "id": 17, "email": "37Bp@PetroChina.club"}, {"website": "Exoon.me", "address": {"geo": {"lng": 126.23449564060454, "lat": 35.532533564484545}, "address": "서울특별시 용산구 용산동 3가 75"}, "phone": "(82)13-8508-4224", "name": "서인표", "company": {"bs": "e-markets", "domain": "staff", "name": "CI"}, "id": 18, "email": "JfT0C@H5BC.coffee"}, {"website": "TOTAL.info", "address": {"geo": {"lng": 125.06021291343957, "lat": 36.881676571820695}, "address": "대구광역시 중구 북문동 34"}, "phone": "(82)13-1724-6013", "name": "윤은호", "company": {"bs": "e-markets", "domain": "client-server", "name": "Logitec"}, "id": 19,
```

```
Elements Console Recorder Performance insights Sources Network »
Live reload enabled.
xsl.html:32
xsl.html:60

▼ Array(30)
  ► 0: (website: "QUALCOMM.info", address: (-), phone: "(82)13-3760-5666", name: "은보리", company: (-), -)
  ► 1: (website: "Walmart.coffee", address: (-), phone: "(82)13-4715-5715", name: "진외호", company: (-), -)
  ► 2: (website: "Wells.tv", address: (-), phone: "(82)13-1685-6557", name: "형현출", company: (-), -)
  ► 3: (website: "Comcast.cloud", address: (-), phone: "(82)13-5831-5617", name: "인태산", company: (-), -)
  ► 4: (website: "International.blog", address: (-), phone: "(82)13-1568-2230", name: "호태현", company: (-), -)
  ► 5: (website: "Mondelēz.site", address: (-), phone: "(82)13-1135-5554", name: "아수영", company: (-), -)
  ► 6: (website: "Bank.me", address: (-), phone: "(82)13-5002-3584", name: "기태수", company: (-), -)
  ► 7: (website: "Wellsicu", address: (-), phone: "(82)13-6335-3971", name: "음민형", company: (-), -)
  ► 8: (website: "Snap.show", address: (-), phone: "(82)13-9344-7478", name: "장세리", company: (-), -)
  ► 9: (website: "Duke.show", address: (-), phone: "(82)13-4831-1889", name: "양종현", company: (-), -)
  ► 10: (website: "Snowflake.online", address: (-), phone: "(82)13-6784-9607", name: "호보림", company: (-), -)
  ► 11: (website: "Intel.go.kr", address: (-), phone: "(82)13-4229-4888", name: "국채우", company: (-), -)
  ► 12: (website: "United.email", address: (-), phone: "(82)13-9055-2041", name: "라세현", company: (-), -)
  ► 13: (website: "Colgate-Palmolive.io", address: (-), phone: "(82)13-8316-5127", name: "국전재", company: (-), -)
  ► 14: (website: "Texas.cloud", address: (-), phone: "(82)13-6380-8020", name: "염가람", company: (-), -)
  ► 15: (website: "Intuit.go.kr", address: (-), phone: "(82)13-3267-3883", name: "신우호우", company: (-), -)
  ► 16: (website: "Wellsuwork", address: (-), phone: "(82)13-3372-9897", name: "염예준", company: (-), -)
  ► 17: (website: "Exoon.me", address: (-), phone: "(82)13-8508-4224", name: "서인호", company: (-), -)
  ► 18: (website: "TOTAL.info", address: (-), phone: "(82)13-1724-6013", name: "윤은호", company: (-), -)
  ► 19: (website: "International.email", address: (-), phone: "(82)13-3710-5147", name: "홍강출", company: (-), -)
  ► 20: (website: "Union.jp", address: (-), phone: "(82)13-3335-3883", name: "지종민", company: (-), -)
  ► 21: (website: "International.cn", address: (-), phone: "(82)13-3818-3000", name: "박정출", company: (-), -)
  ► 22: (website: "Colgate-Palmolive.work", address: (-), phone: "(82)13-4635-5552", name: "염하현", company: (-), -)
  ► 23: (website: "Wells.vn", address: (-), phone: "(82)13-8608-2394", name: "남경지대", company: (-), -)
  ► 24: (website: "Altria.blog", address: (-), phone: "(82)13-1315-1866", name: "형용재", company: (-), -)
  ► 25: (website: "H5BC.co.kr", address: (-), phone: "(82)13-1772-6004", name: "박가람", company: (-), -)
  ► 26: (website: "Illinois.co.kr", address: (-), phone: "(82)13-6157-5323", name: "이도건", company: (-), -)
  ► 27: (website: "PepsiCo.work", address: (-), phone: "(82)13-1773-2929", name: "염현호", company: (-), -)
  ► 28: (website: "Novo.coffee", address: (-), phone: "(82)13-1220-9554", name: "김태하", company: (-), -)
  ► 29: (website: "Novartis.jp", address: (-), phone: "(82)13-4294-8108", name: "민두아", company: (-), -)

length: 30
[[Prototype]]: Array(0)
```