

## **Practice #2**

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CS459

### **Zodiac luck of the day**

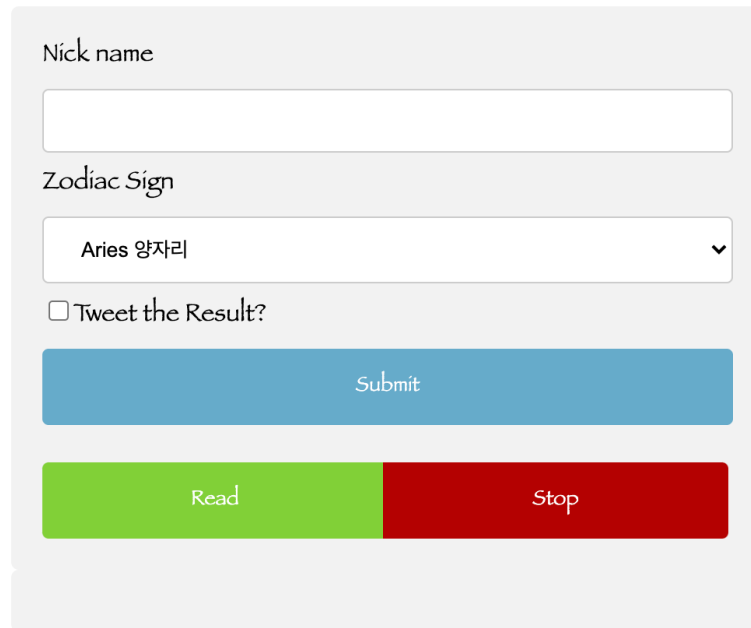
#### **1. Brief explanation about the Web services used for the mashup**

I used total of three web services to create my own mash-up service. They are a) Aztro, which is an astrology API that tells your luck of the day depending on your zodiac sign, b) ResponsiveVoice, which is a TTS API, and the c) Twitter API so the mashup can allow users to tweet the result if the user wants to.

#### **2. Explanation about the mashup application**

I really enjoyed this account called ‘보조오하아사’ on twitter, which allows its followers to receive information about their daily luck each day. My mashup is similar to that account except it only shows the luck description for your zodiac sign. By utilizing ResponsiveVoice, it also allows users to listen to the result with computer-generated voice. If a user wants to receive the result via Twitter, he or she can do that as well by checking the checkbox on the webpage. The shorter version of the result will be posted on the service account (@kj\_testbot) for those users.

## Check your luck of the day!



A user access form titled "Check your luck of the day!". It contains a text input for "Nick name", a dropdown menu for "Zodiac Sign" with "Aries 양자리" selected, a checkbox for "Tweet the Result?", a blue "Submit" button, and two buttons at the bottom: a green "Read" button and a red "Stop" button.

Nick name

Zodiac Sign

Aries 양자리

☐ Tweet the Result?

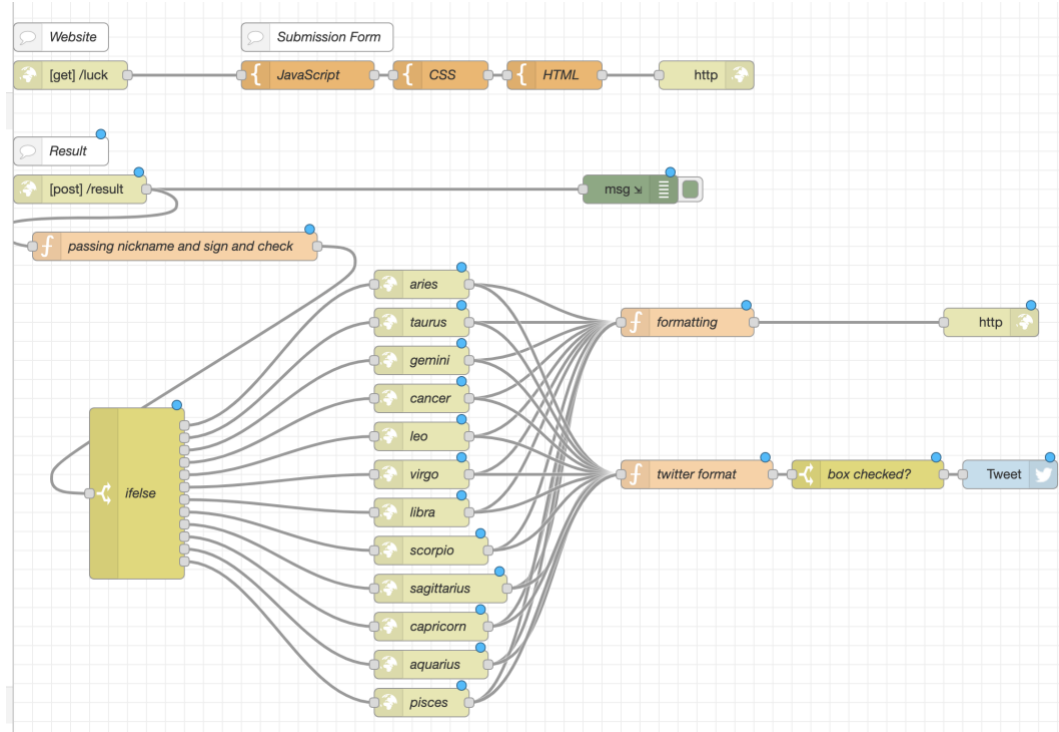
Submit

Read Stop

*Picture 1 User Access Page*

By accessing the site, users can submit their nicknames, zodiac signs with the intention of tweeting the result. Then the service will return the result. Users can then decide to listen to the result via TTS.

### 3. Hard copy of the program source (exported from NODE-RED as a json)



Node-Red Diagram 1

```

1  [
2    {
3      "id": "1fde196def17a93f",
4      "type": "tab",
5      "label": "working on",
6      "disabled": false,
7      "info": ""
8    },
9    {
10     "id": "1e0841f1.ac68fe",
11     "type": "http in",
12     "z": "1fde196def17a93f",
13     "name": "",
14     "url": "/luck",
15     "method": "get",
16     "upload": false,
17     "swaggerDoc": "",
18     "x": 60,
19     "y": 280,
20     "wires": [
21       [
22         "b2f5bdf9.e09f1"
23       ]
24     ]
25   },
26   {
27     "id": "80321000.f2dc5",
28     "type": "debug",
29     "z": "1fde196def17a93f",
30     "name": "",
31     "active": true,
32     "tosidebar": true,
33     "console": true,
34     "tostatus": false,
35     "complete": "true",
36     "targetType": "full",
37     "statusVal": "",
38     "statusType": "auto",
39     "x": 650,
40     "y": 500,
41     "wires": []
42   },
43   {
44     "id": "b2972258.ecf54",
45     "type": "template",
46     "z": "1fde196def17a93f",
47     "name": "CSS",
48     "field": "payload.style",
49     "fieldType": "msg",
50     "format": "html",
51     "syntax": "mustache",
52     "template": "h2 {\n  font-family:
53     fantasy;\n}\n\nform {\n  font-family:
54     fantasy;\n}\n\ninput[type=text], select {\n
55     width: 100%;\n  padding: 12px 20px;\n
56     margin: 8px 0;\n  display: inline-block;\n
57     border: 1px solid #ccc;\n  border-radius:
58     4px;\n  box-sizing: border-

```

```

59 box;\n}\n\ninput[type=submit] {\n    width:
60 100%;\n    background-color: #65acca;\n
61 color: white;\n    padding: 14px 20px;\n
62 margin: 8px 0;\n    border: none;\n    border-
63 radius: 4px;\n    cursor: pointer;\n    font-
64 family: fantasy;\n}\n\ninput[type=submit]:hover
65 {\n    background-color: #2f97c4;\n}\n\n

```

130     "type": "http response",
131     "z": "1fde196def17a93f",
132     "name": "",
133     "statusCode": "",
134     "headers": {},
135     "x": 730,
136     "y": 280,
137     "wires": []
138 },
139 {
140     "id": "f3b55ea2.f4d51",
141     "type": "template",
142     "z": "1fde196def17a93f",
143     "name": "HTML",
144     "field": "payload",
145     "fieldType": "msg",
146     "format": "handlebars",
147     "syntax": "mustache",
148     "template": "<html>\n<head>\n
149 <title>Astrology Site</title>\n    <meta
150 name=\\\"viewport\\\" content=\\\"width=device-width,
151 initial-scale=1.0\\\">\n    <meta charset=\\\"utf-
152 8\\\">\n    <script
153 src=\\\"https://code.responsivevoice.org/responsi
154 vevoice.js?key=fBdxjflR\\\"></script>\n
155 <script
156 src=\\\"http://cdnjs.cloudflare.com/ajax/libs/jqu
157 ery/2.1.0/jquery.min.js\\\"></script>\n
158 <style>{{{payload.style}}}</style> \n
159 </head>\n    \n    <h2>Check your luck of the
160 day!</h2>\n    \n    <div>\n    <form
161 method=\\\"POST\\\" ajax=\\\"true\\\"
162 action=\\\"/result\\\"> \n    <label
163 for=\\\"nickname\\\">Nick name</label>\n    <input
164 type=\\\"text\\\" id=\\\"nickname\\\"
165 name=\\\"nickname\\\">\n<br>\n    <label
166 for=\\\"zodiac\\\">Zodiac Sign</label>\n    <select
167 id=\\\"zodiac\\\" name=\\\"zodiac\\\">\n    <option
168 value=\\\"aries\\\">Aries 양자리</option>\n
169 <option value=\\\"taurus\\\">Taurus 황소</option>\n
170 <option value=\\\"gemini\\\">Gemini
171 쌍둥이</option>\n    <option
172 value=\\\"cancer\\\">Cancer 게자리</option>\n
173 <option value=\\\"leo\\\">Leo 사자자리</option>\n
174 <option value=\\\"virgo\\\">Virgo
175 처녀자리</option>\n    <option
176 value=\\\"libra\\\">Libra 천칭자리</option>\n
177 <option value=\\\"scorpio\\\">Scorpio
178 전갈자리</option>\n    <option
179 value=\\\"sagittarius\\\">Sagittarius
180 궁수자리</option>\n    <option
181 value=\\\"capricorn\\\">Capricorn
182 염소자리</option>\n    <option
183 value=\\\"aquarius\\\">Aquarius 물병자리</option>\n
184 <option value=\\\"pisces\\\">Pisces
185 물고기자리</option>\n    </select>\n<br>\n
186 <label><input type=\\\"checkbox\\\" id=\\\"tweet\\\"
187 name=\\\"tweet\\\">Tweet the
188 Result?</label>\n<br>\n    <input
189 type=\\\"submit\\\" value=\\\"Submit\\\">\n    </form>\n
190 <button id=\\\"read\\\"
191 onclick=\\\"responsiveVoice.speak(document.getEle
192 mentById('result').textContent);\\\">Read</butt
193 on>\n    <button id=\\\"stop\\\"
194 onclick=\\\"responsiveVoice.cancel();\\\">Stop</but

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```

195 ton>\n \n \n\n</div>\n<div>\n <span
196 id=\result\ "></span>\n</div>\n</body>\n</html>
197 \n<script>{{payload.script}}</script>",
198 "x": 570,
199 "y": 280,
200 "wires": [
201 [
202 "d2c0bc2a.05a02"
203 ]
204 ],
205 },
206 {
207 "id": "57316751.8bd948",
208 "type": "comment",
209 "z": "1fdel96def17a93f",
210 "name": "Submission Form",
211 "info": "",
212 "x": 320,
213 "y": 240,
214 "wires": []
215 },
216 {
217 "id": "86c08a83.385758",
218 "type": "comment",
219 "z": "1fdel96def17a93f",
220 "name": "Website",
221 "info": "",
222 "x": 50,
223 "y": 240,
224 "wires": []
225 },
226 {
227 "id": "111485fa.14c4aa",
228 "type": "comment",
229 "z": "1fdel96def17a93f",
230 "name": "Result",
231 "info": "",
232 "x": 50,
233 "y": 460,
234 "wires": []
235 },
236 {
237 "id": "6bd70789ec2ecb0d",
238 "type": "http in",
239 "z": "1fdel96def17a93f",
240 "name": "",
241 "url": "/result",
242 "method": "post",
243 "upload": false,
244 "swaggerDoc": "",
245 "x": 70,
246 "y": 500,
247 "wires": [
248 [
249 "80321000.f2dc5",
250 "7a7c8f696250b5f1"
251 ]
252 ]
253 },
254 {
255 "id": "ebe90a906344db6f",
256 "type": "http response",
257 "z": "1fdel96def17a93f",
258 "name": "",
259 "statusCode": "",
260 "headers": {},
261 "x": 1050,
262 "y": 880,
263 "wires": []
264 },
265 {

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```

266 "id": "be40f2ee8148e4d9",
267 "type": "switch",
268 "z": "1fdel96def17a93f",
269 "name": "ifelse",
270 "property": "payload.zodiac",
271 "propertyType": "msg",
272 "rules": [
273 {
274 "t": "eq",
275 "v": "aries",
276 "vt": "str"
277 },
278 {
279 "t": "eq",
280 "v": "taurus",
281 "vt": "str"
282 },
283 {
284 "t": "eq",
285 "v": "gemini",
286 "vt": "str"
287 },
288 {
289 "t": "eq",
290 "v": "cancer",
291 "vt": "str"
292 },
293 {
294 "t": "eq",
295 "v": "leo",
296 "vt": "str"
297 },
298 {
299 "t": "eq",
300 "v": "virgo",
301 "vt": "str"
302 },
303 {
304 "t": "eq",
305 "v": "libra",
306 "vt": "str"
307 },
308 {
309 "t": "eq",
310 "v": "scorpio",
311 "vt": "str"
312 },
313 {
314 "t": "eq",
315 "v": "sagittarius",
316 "vt": "str"
317 },
318 {
319 "t": "eq",
320 "v": "capricorn",
321 "vt": "str"
322 },
323 {
324 "t": "eq",
325 "v": "aquarius",
326 "vt": "str"
327 },
328 {
329 "t": "eq",
330 "v": "pisces",
331 "vt": "str"
332 }
333 ],
334 "checkall": "true",
335 "repair": false,
336 "outputs": 12,

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```

337 "x": 110,
338 "y": 880,
339 "wires": [
340   [
341     "e42d5b48be6a1c8e"
342   ],
343   [
344     "2aeab3775a8e42cb"
345   ],
346   [
347     "2b420c41f070ff33"
348   ],
349   [
350     "61790b9fe8cbd942"
351   ],
352   [
353     "691e1606e818ac3a"
354   ],
355   [
356     "4f472276f279e449"
357   ],
358   [
359     "f07c94c6b3d79891"
360   ],
361   [
362     "3928a2a0066ffef0"
363   ],
364   [
365     "aa3c9cf76301905e"
366   ],
367   [
368     "ea53e07dbba02451"
369   ],
370   [
371     "51e4a0693090ecbe"
372   ],
373   [
374     "bca04ec58d3701bf"
375   ]
376 ],
377 },
378 {
379   "id": "e42d5b48be6a1c8e",
380   "type": "http request",
381   "z": "1fde196def17a93f",
382   "name": "aries",
383   "method": "POST",
384   "ret": "obj",
385   "paytoqs": "ignore",
386   "url":
387 "https://aztro.sameerkumar.website?sign=aries&d
388 ay=today",
389   "tls": "",
390   "persist": false,
391   "proxy": "",
392   "authType": "",
393   "x": 410,
394   "y": 660,
395   "wires": [
396     [
397       "bcfe2d3038eed099",
398       "2e6db7860ad00a67"
399     ]
400   ],
401 },
402 {
403   "id": "2b420c41f070ff33",
404   "type": "http request",
405   "z": "1fde196def17a93f",
406   "name": "gemini",
407   "method": "POST",

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408   "ret": "obj",
409   "paytoqs": "ignore",
410   "url":
411 "https://aztro.sameerkumar.website?sign=gemini&
412 day=today",
413   "tls": "",
414   "persist": false,
415   "proxy": "",
416   "authType": "",
417   "x": 410,
418   "y": 740,
419   "wires": [
420     [
421       "bcfe2d3038eed099",
422       "2e6db7860ad00a67"
423     ]
424   ]
425 },
426 {
427   "id": "2aeab3775a8e42cb",
428   "type": "http request",
429   "z": "1fde196def17a93f",
430   "name": "taurus",
431   "method": "POST",
432   "ret": "obj",
433   "paytoqs": "ignore",
434   "url":
435 "https://aztro.sameerkumar.website?sign=taurus&
436 day=today",
437   "tls": "",
438   "persist": false,
439   "proxy": "",
440   "authType": "",
441   "x": 410,
442   "y": 700,
443   "wires": [
444     [
445       "bcfe2d3038eed099",
446       "2e6db7860ad00a67"
447     ]
448   ]
449 },
450 {
451   "id": "61790b9fe8cbd942",
452   "type": "http request",
453   "z": "1fde196def17a93f",
454   "name": "cancer",
455   "method": "POST",
456   "ret": "obj",
457   "paytoqs": "ignore",
458   "url":
459 "https://aztro.sameerkumar.website?sign=cancer&
460 day=today",
461   "tls": "",
462   "persist": false,
463   "proxy": "",
464   "authType": "",
465   "x": 410,
466   "y": 780,
467   "wires": [
468     [
469       "bcfe2d3038eed099",
470       "2e6db7860ad00a67"
471     ]
472   ]
473 },
474 {
475   "id": "691e1606e818ac3a",
476   "type": "http request",
477   "z": "1fde196def17a93f",
478   "name": "leo",

```

```

479     "method": "POST",
480     "ret": "obj",
481     "paytoqs": "ignore",
482     "url":
483 "https://aztro.sameerkumar.website?sign=leo&day
484 =today",
485     "tls": "",
486     "persist": false,
487     "proxy": "",
488     "authType": "",
489     "x": 410,
490     "y": 820,
491     "wires": [
492         [
493             "bcfe2d3038eed099",
494             "2e6db7860ad00a67"
495         ]
496     ],
497 },
498 {
499     "id": "4f472276f279e449",
500     "type": "http request",
501     "z": "1fdel96def17a93f",
502     "name": "virgo",
503     "method": "POST",
504     "ret": "obj",
505     "paytoqs": "ignore",
506     "url":
507 "https://aztro.sameerkumar.website?sign=virgo&d
508 ay=today",
509     "tls": "",
510     "persist": false,
511     "proxy": "",
512     "authType": "",
513     "x": 410,
514     "y": 860,
515     "wires": [
516         [
517             "bcfe2d3038eed099",
518             "2e6db7860ad00a67"
519         ]
520     ],
521 },
522 {
523     "id": "f07c94c6b3d79891",
524     "type": "http request",
525     "z": "1fdel96def17a93f",
526     "name": "libra",
527     "method": "POST",
528     "ret": "obj",
529     "paytoqs": "ignore",
530     "url":
531 "https://aztro.sameerkumar.website?sign=libra&d
532 ay=today",
533     "tls": "",
534     "persist": false,
535     "proxy": "",
536     "authType": "",
537     "x": 410,
538     "y": 900,
539     "wires": [
540         [
541             "bcfe2d3038eed099",
542             "2e6db7860ad00a67"
543         ]
544     ],
545 },
546 {
547     "id": "3928a2a0066ffef0",
548     "type": "http request",
549     "z": "1fdel96def17a93f",

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```

550     "name": "scorpio",
551     "method": "POST",
552     "ret": "obj",
553     "paytoqs": "ignore",
554     "url":
555 "https://aztro.sameerkumar.website?sign=scorpio
556 &day=today",
557     "tls": "",
558     "persist": false,
559     "proxy": "",
560     "authType": "",
561     "x": 420,
562     "y": 940,
563     "wires": [
564         [
565             "bcfe2d3038eed099",
566             "2e6db7860ad00a67"
567         ]
568     ],
569 },
570 {
571     "id": "aa3c9cf76301905e",
572     "type": "http request",
573     "z": "1fdel96def17a93f",
574     "name": "sagittarius",
575     "method": "POST",
576     "ret": "obj",
577     "paytoqs": "ignore",
578     "url":
579 "https://aztro.sameerkumar.website?sign=sagitta
580 rius&day=today",
581     "tls": "",
582     "persist": false,
583     "proxy": "",
584     "authType": "",
585     "x": 430,
586     "y": 980,
587     "wires": [
588         [
589             "bcfe2d3038eed099",
590             "2e6db7860ad00a67"
591         ]
592     ],
593 },
594 {
595     "id": "ea53e07dbba02451",
596     "type": "http request",
597     "z": "1fdel96def17a93f",
598     "name": "capricorn",
599     "method": "POST",
600     "ret": "obj",
601     "paytoqs": "ignore",
602     "url":
603 "https://aztro.sameerkumar.website?sign=caprico
604 rn&day=today",
605     "tls": "",
606     "persist": false,
607     "proxy": "",
608     "authType": "",
609     "x": 420,
610     "y": 1020,
611     "wires": [
612         [
613             "bcfe2d3038eed099",
614             "2e6db7860ad00a67"
615         ]
616     ],
617 },
618 {
619     "id": "51e4a0693090ecbe",
620     "type": "http request",

```

```

621         "z": "1fde196def17a93f",
622         "name": "aquarius",
623         "method": "POST",
624         "ret": "obj",
625         "paytoqs": "ignore",
626         "url":
627 "https://aztro.sameerkumar.website?sign=aquariu
628 s&day=today",
629         "tls": "",
630         "persist": false,
631         "proxy": "",
632         "authType": "",
633         "x": 420,
634         "y": 1060,
635         "wires": [
636             [
637                 "bcfe2d3038eed099",
638                 "2e6db7860ad00a67"
639             ]
640         ],
641     },
642     {
643         "id": "bca04ec58d3701bf",
644         "type": "http request",
645         "z": "1fde196def17a93f",
646         "name": "pisces",
647         "method": "POST",
648         "ret": "obj",
649         "paytoqs": "ignore",
650         "url":
651 "https://aztro.sameerkumar.website?sign=pisces&
652 day=today",
653         "tls": "",
654         "persist": false,
655         "proxy": "",
656         "authType": "",
657         "x": 410,
658         "y": 1100,
659         "wires": [
660             [
661                 "bcfe2d3038eed099",
662                 "2e6db7860ad00a67"
663             ]
664         ],
665     },
666     {
667         "id": "bcfe2d3038eed099",
668         "type": "function",
669         "z": "1fde196def17a93f",
670         "name": "formatting",
671         "func": "msg.payload = msg.nname+'\"s
672 luck of the day(' + msg.payload.current_date +
673 ') as a(n) ' +msg.sign+ ': <br><br>' +
674 msg.payload.description + '<br> <br>You will
675 get along well with a(n) ' +
676 msg.payload.compatibility + '.<br><br>Your
677 lucky color is '+ msg.payload.color + ' . Maybe
678 wear '+ msg.payload.color + ' colored items
679 today! <br><br>Your lucky number is ' +
680 msg.payload.lucky_number + ' and your lucky
681 time is '+ msg.payload.lucky_time + ' .
682 <br><br>Have a great day!' ;\n\nreturn msg;",
683         "outputs": 1,
684         "noerr": 0,
685         "initialize": "",
686         "finalize": "",
687         "libs": [],
688         "x": 730,
689         "y": 880,
690         "wires": [
691             [
692                 "ebe90a906344db6f"
693             ]
694         ]
695     },
696     {
697         "id": "b8e5d78826489481",
698         "type": "twitter out",
699         "z": "1fde196def17a93f",
700         "twitter": "",
701         "name": "Tweet",
702         "x": 1050,
703         "y": 1180,
704         "wires": []
705     },
706     {
707         "id": "2e6db7860ad00a67",
708         "type": "function",
709         "z": "1fde196def17a93f",
710         "name": "twitter format",
711         "func": "msg.payload = msg.nname +'\"s
712 luck as a(n) \" + msg.sign + \" on \" +
713 msg.payload.current_date + ' : ' +
714 msg.payload.description; \n\nreturn msg;",
715         "outputs": 1,
716         "noerr": 0,
717         "initialize": "",
718         "finalize": "",
719         "libs": [],
720         "x": 720,
721         "y": 1180,
722         "wires": [
723             [
724                 "e9817cf7deae2be4"
725             ]
726         ]
727     },
728     {
729         "id": "7a7c8f696250b5f1",
730         "type": "function",
731         "z": "1fde196def17a93f",
732         "name": "passing nickname and sign and
733 check",
734         "func": "msg.nname =
735 msg.payload.nickname;\nmsg.sign =
736 msg.payload.zodiac;\nmsg.tweet =
737 msg.payload.tweet;\n\nreturn msg;",
738         "outputs": 1,
739         "noerr": 0,
740         "initialize": "",
741         "finalize": "",
742         "libs": [],
743         "x": 150,
744         "y": 620,
745         "wires": [
746             [
747                 "be40f2ee8148e4d9"
748             ]
749         ]
750     },
751     {
752         "id": "e9817cf7deae2be4",
753         "type": "switch",
754         "z": "1fde196def17a93f",
755         "name": "box checked?",
756         "property": "tweet",
757         "propertyType": "msg",
758         "rules": [
759             {
760                 "t": "eq",
761                 "v": "on",
762                 "vt": "str"

```



```
763         }
764     ],
765     "checkall": "true",
766     "repair": false,
767     "outputs": 1,
768     "x": 900,
769     "y": 1180,
770     "wires": [
771         [
772             "b8e5d78826489481"
773         ]
774     ]
775 }
776 ]
```

#### 4. Sample results

User input: Kunyoung for the nick name field, and Libra for Zodiac Sign field.

‘Tweet the Result?’ box was also checked.

Output:

Check your luck of the day!

The screenshot shows a web form with the following elements:

- Nick name:** A text input field containing 'Kunyoung'.
- Zodiac Sign:** A dropdown menu showing 'Libra 천칭자리' with a downward arrow.
- Tweet the Result?:** A checkbox that is checked.
- Submit:** A blue button.
- Read/Stop:** Two buttons, one green labeled 'Read' and one red labeled 'Stop'.

Below the form, the output text reads:

Kunyoung's luck of the day(October 31, 2021) as a(n) libra:

Agitators and provocateurs won't get under your skin. Be calm as can be, secure in the knowledge that your own idea is still the best. With this kind of great thinking, you can wait until you're good and ready.

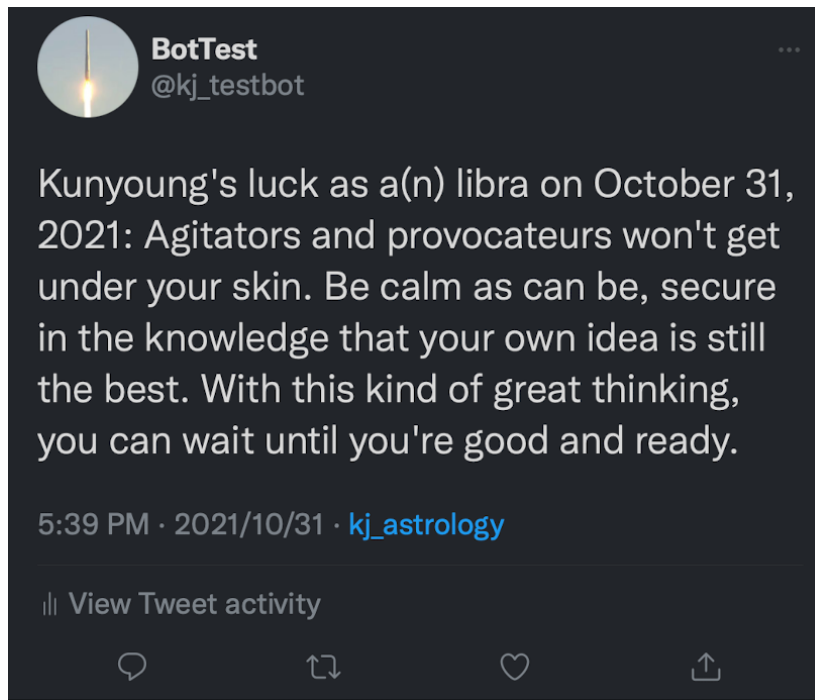
You will get along well with a(n) Virgo.

Your lucky color is Silver. Maybe wear Silver colored items today!

Your lucky number is 22 and your lucky time is 10pm.

Have a great day!

Picture 2 User Input/Output Example



Picture 3 User Output example - Twitter