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# Asia Dev Academy

Node.JS Challenge

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# Node topics that going to be used for challenge

- 1) npm
  - 2) Adding Modules.
  - 3) Using filesystem (fs)
  - 4) Adding Modules from NPM
  - 5) Event Listener
  - 6) Asynchronous Function
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# 1) Create an ADA Bot - Setting up



- 1) Create a Slack bot project using npm function.
  - 2) Use npm to integrate **botkit** module that will be used to create the bot.
  - 3) In Slack, create a bot integration. Go to Add Custom Configuration, create a new bot and retrieve the API Key of the bot.
  - 4) Create a new index.js file and complete it with bot setup code.
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## Bots

Connect a bot to the Slack Real Time Messaging API.

Run code that listens and posts to your Slack team just as a user would.

### Username

Start by choosing a username for your bot

Username must be all lowercase. They cannot be longer than 21 characters and can only contain letters, numbers, periods, hyphens, and underscores. Most people choose to use their first name, last name, nickname, or some combination of those with initials.

**Add bot integration**

By creating a bot integration, you agree to the [Slack API Terms of Service](#).

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# Starter code using botkit.

```
var Botkit = require('botkit')

if (!process.env.token) {
  console.log('Error: Specify token in environment');
  process.exit(1);
}

var controller = Botkit.slackbot({
  debug: false
});

controller.spawn({
  token: process.env.token
}).startRTM(function(err) {
  if (err) {
    throw new Error(err);
  }
});
```

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# Different concept of Node.

Spot the different concept of Node

1) Importing module.

2) Listener

3) Callback

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# Listener in Practice

```
controller.hears(['hi', 'hello', 'howdy'], 'direct_message,direct_mention,mention',  
function(bot, message) {  
  bot.reply(message, 'Hello there! :wave:');  
});
```

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# Challenge 1: Assigning WOD

- 1) @lovely\_ada\_bot will assign wod to a person within our class when the word “wod” is being heard.
- 2) Create the function that will randomly assign WOD to anyone when the word wod is being heard in room.
- 3) The message also can be randomize to make it interesting, eg:  
  
‘The person who looks so motivated to do WOD is Nicki’, ‘I feel like Tack love WOD so much,’ ‘Nick comes early so that he can do WOD today!’



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# Callback in Practice

```
controller.hears(['hi', 'hello', 'howdy'], 'direct_message,direct_mention,mention',  
function(bot, message) {  
  bot.reply(message, 'Hello there! :wave:');  
});
```

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## Challenge 2:

- 1) @lovely\_ada\_bot will assign wod to a person within our class when the word “wod” is being heard.
- 2) Create the function that will randomly assign WOD to anyone when the word wod is being heard in room.
- 3) The message also can be randomize to make it interesting, eg:  
  
‘The person who looks so motivated to do WOD is Nicki’, ‘I feel like Tack love WOD so much,’ ‘Nick comes early so that he can do WOD today!’

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## Challenge 3: Conversation Bot

- 1) Bot will start a conversation with user when a particular word has been detected, eg: 'trip'.
  - 2) The conversation will goes on as : Where do you like to go? How many persons will be there? How long will you stay?
  - 3) This will be the base for future bot when we added database to the function.
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# What's Next?

- Adding Database to the BOT.
  - System to system connection (eg: to weather API)
  - Using Text Analysis.
  - More interactive response (with photos...)
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