Else - If

Last updated 10/29/20

Else - If

- These slides introduce the else if test
- Upon completion: You should be able to interpret and code solutions using else if

Else - If

- else if...
  - Actually not a new command
  - Special case of nested if

```
if(expr1){
  …
}
else if(expr2){
  …
}
else if(expr3){
  …
}
else{
  …
}
```

```
if(expr1){
  …
}
else
  if(expr2){
  …
  }
  else
    if(expr3){
    …
    }
    else{

    }
  }
}
```

- exprX should be different cases of the same test

Else - If

- else if…
  - grades revisited

```
/*
 * test_grades2.c
 *
 * Created on: Jan 20, 2020
 *     Author: johnsontimoj
 */
// example to show else if

#include <stdio.h>

int main(void){
    setbuf(stdout, NULL);  // disable buffering

    int score;

    //  get test score
    printf("Please enter test score: ");
    scanf("%i", &score);
```

```
    // print grade
    if(score >= 90)
        printf("A\n");
    else if(score >= 80)
        printf("B\n");
    else if(score >= 70)
        printf("C\n");
    else if(score >= 60)
        printf("D\n");
    else
        printf("F\n");

    return 0;
} // end main
```

Else - If

- else if...
  - grades revisited

```
/*
 * test_grades2.c
 *
 *  Created on: Jan 20, 2020
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 */
// example to show else if

#include <stdio.h>

int main(void){
    setbuf(stdout, NULL);  // disable buffering

    int score;

    //   get test score
    printf("Please enter test score: ");
    scanf("%i", &score);

    // convert score to grade range//
    score = score / 10;
```

All tests are measures of the same expression *

```
    // print grade
    if(score >= 90)
        printf("A\n");
    else if(score >= 80)
        printf("B\n");
    else if(score >= 70)
        printf("C\n");
    else if(score >= 60)
        printf("D\n");
    else
        printf("F\n");

    return 0;
} // end main
```

Final option is just an else

* - while not required – you can get into logical trouble if you vary the test variable