

## CIS 1111 Making Decisions Exercise 1– 10 points

**Description:** For this assignment, write a program that allows the user to check the health of their horse by entering its weight in pounds. Use the table below to determine the healthy weight ranges for each type of horse.

Light Riding Horse	Large Riding Horse	Draft Horse
840 lbs. – 1200 lbs.	1110 lbs. – 1550 lbs.	1500 lbs. – 2200 lbs.

Based on the weight entered, provide the following feedback:

- If the horse is underweight, instruct the user to feed it more grain.
- If the horse is overweight, instruct the user to exercise the horse more.
- If the horse is healthy, congratulate the user on their horse being a healthy weight.
- If the user enters invalid data, display an error message.

### Requirements:

1. Display a menu to the user asking them which type of horse they would like to check the health of, then collect its weight in lbs.
2. Validate the horses' weight against the guidelines in for the type of horse it is. Use const variables to represent the high and low ends for each weight range.
3. Create 2 user personas in your test data – one whose horse is healthy, and one whose is not.
4. Program must be documented with:
  - a. //Name
  - b. //Date
  - c. //Program Name
  - d. //Program Description

### Sample Output: (Healthy Horse)

```
Welcome to Hanna's Horse Heaven.
We believe that horse health is as important as their owner's, which means maintaining a healthy weight.
-----
1. Light Riding Horse
2. Large Riding Horse
3. Draft Horse
-----
What type of horse do you have? (Select 1-3) 1
Enter your horse's weight(in pounds): 1200
Congratulations, your horse is within regular weight range!
Press any key to continue . . .
```

### Sample Output: (Unhealthy Horse)

```
Welcome to Hanna's Horse Heaven.
We believe that horse health is as important as their owner's, which means maintaining a healthy weight.
-----
1. Light Riding Horse
2. Large Riding Horse
3. Draft Horse
-----
What type of horse do you have? (Select 1-3) 3
Enter your horse's weight(in pounds): 250
Your horse is underweight, try feeding them extra grain to return them to normal weight.

Press any key to continue . . .
```

### Sample Output: (Bad Data)

```
Welcome to Hanna's Horse Heaven.
We believe that horse health is as important as their owner's, which means maintaining a healthy weight.
-----
1. Light Riding Horse
2. Large Riding Horse
3. Draft Horse
-----
What type of horse do you have? (Select 1-3) 5
Sorry, that is not a valid selection.

Press any key to continue . . .
```

### Test Data:

Horse Type	Weight	Healthy/Unhealthy
Light Riding Horse (1)	1200	Healthy
Draft Horse (3)	250	Unhealthy

### Submission Requirements:

Upload the following to the drop box:

1. Your .cpp file
2. Screenshot of your output and program code
3. Test Data (minimum 2 user personas)

**Grading rubric for this assignment:**

	<b>Low End (did not do or very little effort)</b>	<b>High End (Requirements met with high effort)</b>
Program successfully compiles	0	1
Meets all program requirements	0	5
Properly submitted all required files to the drop box	0	4