

## Presidential Initiative for Artificial Intelligence and Computing (PIAIC)

**PIAIC Batch 3 Islamabad IoT (Morning, Evening and Online)**

<https://www.piaic.org>



### Internet of Things (IoT) Specialist Program

#### Quarter I: Rust Programming

#### Assignment # 3

**Due Date October 31, 2019**

**Q # 1. BMI Calculator** : Write a Rust program, that get input height (in cm) and weight (in kg) from user to calculate body mass index. Use if condition to check if the BMI is <18.5, print underweight, if BMI is >18.5 and <25, print Normal weight, if BMI is >25 print overweight. (input hint: use `std::io`; `io::stdin()`, for string to integer conversion: `parse()` ).

**Program Sample 1:**

```
Enter Height in Cm: 180
```

```
Enter Weight in Kg: 75
```

```
Your BMI is 23.15
```

Reference:

<https://www.thecalculatorsite.com/articles/health/bmi-formula-for-bmi-calculations.php>

**Q # 2.** Write a Rust program, use only while loop, print from Number 1 to 10, and make a conditional IF for printing a custom message **Special Security check**, on Number 3, 7 and 10, ( hint: use while loop and increment a variable, for custom message: use IF ).

**Important:** Don't copy from classmates, just add functionalities that has covered in class, and use meaningful names while declaring variables and functions. Avoid 'a', 'b', 'x', 'y', etc..

Please click [here](#) to submit your assignment

(or paste this link in your browser <https://forms.gle/RiVKxEsxoEv34KsF6> )