

<https://github.com/AJ-Protzel/HW5-Black-Box>

1. In test_functions.py, 2 classes are used (ValidQ1, InvalidQ1), with two functions in each for test cases for equivalence partitioning and BVA boundaries.
 - a. Equivalent partition: -15(invalid), 15(valid), 60(invalid)
 - i. Condition: less than 1, more than 31
 - b. BVA: 0(invalid), 1(valid), 31(valid), 32(invalid)
 - i. Below: 0, 31
 - ii. Above: 1, 32
2. In test_functions.py, 2 classes are used (ValidQ2, InvalidQ2), with two functions in each for test cases for equivalence partitioning and BVA boundaries.
 - a. Equivalent partition: ""(invalid), "aaaaaaaa"(valid), "aaaaaaaaaaaaaaaa"(invalid)
 - i. Condition: less than 7, more than 10
 - b. BVA: "aaaaaa"(invalid), "aaaaaaa"(valid), "aaaaaaaaaaa"(valid), "aaaaaaaaaaaaa"(invalid)
 - i. Below: 6, 10
 - ii. Above: 7, 11
3. In test_functions.py, 2 classes are used (ValidQ3, InvalidQ3), with two functions in each for test cases for equivalence partitioning and BVA boundaries.
 - a. Equivalent partition: 10(invalid), 30(valid), 63(invalid), 67(valid), 90(invalid)
 - i. Condition: less than 16 and 65, more than 70 and 60
 - b. BVA: 15(invalid), 16(valid), 59(valid), 60(invalid), 65(invalid), 66(valid), 70(valid), 71(invalid)
 - i. Below: 15, 59, 65, 70
 - ii. Above: 16, 60, 66, 71
4. The installation and execution is very simple and I did not run into trouble. (the screenshot show the first step but more was done on the program on github)

```
~/Homework-5-Black-box-testing-and-Random-testing$ pip install pbbt
Collecting pbbt
  Downloading https://files.pythonhosted.org/packages/32/5f/3bfe6181c381fd54c7cbe374a5786ac2b10f0b802c63180bc7b98a6122ea/pbbt-0.1.6.tar.gz (46kB)
    | 51kB 3.3MB/s
Collecting PyYAML
  Downloading https://files.pythonhosted.org/packages/70/96/c7245e551b1cb496bfb95840ace55ca60f20d3d8e33d70faf8c78a976899/PyYAML-5.4.1-cp38-cp38-manylinux1_x86_64.whl (662kB)
    | 665kB 7.1MB/s
Building wheels for collected packages: pbbt
  Building wheel for pbbt (setup.py) ... done
  Created wheel for pbbt: filename=pbbt-0.1.6-cp38-none-any.whl size=32192 s
  ha256=f7f5c32cee6e471f7f6e17c6b6a5f96433673d74d678f095af339efe7291e2fd
  Stored in directory: /home/runner/.cache/pip/wheels/c1/ac/67/1a0284429bb5f9d2d67614bd8644475553a8cdbc481b5165f5
Successfully built pbbt
Installing collected packages: PyYAML, pbbt
Successfully installed PyYAML-5.4.1 pbbt-0.1.6
WARNING: You are using pip version 19.3.1; however, version 21.0.1 is available.
You should consider upgrading via the 'pip install --upgrade pip' command.
~/Homework-5-Black-box-testing-and-Random-testing$ pbbt input.yaml --train
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PY: print-hello-world
("input.yaml", line 1)
* new test output
Hello, World!
> Press ENTER to record, 's'+ENTER to skip, 'h'+ENTER to halt
> █
```

