

Sda.py Console Output:

```
Windows PowerShell
PS C:\Users\pjsul\OneDrive\Desktop\Johnhopkins Courses\PythonCourse\Unit 6> python sda.py

##### Space Command Simulation 1 #####
Russia is at risk of colliding with ['China', 'Ukraine']
China is at risk of colliding with ['Russia', 'Germany', 'Ukraine']
USA is not at risk for a collision.
Germany is at risk of colliding with ['China', 'Ukraine']
Ukraine is at risk of colliding with ['Russia', 'China', 'Germany']

##### Space Command Simulation 2 #####
Australia is not at risk for a collision.
Germany is at risk of colliding with ['Ukraine', 'Egypt']
USA is not at risk for a collision.
Russia is not at risk for a collision.
Ukraine is at risk of colliding with ['Germany', 'Canada', 'Egypt']
China is not at risk for a collision.
Canada is at risk of colliding with ['Ukraine', 'Egypt']
France is not at risk for a collision.
Egypt is at risk of colliding with ['Germany', 'Ukraine', 'Canada']
Mexico is not at risk for a collision.
PS C:\Users\pjsul\OneDrive\Desktop\Johnhopkins Courses\PythonCourse\Unit 6>d
```

Satellite1_alerts.txt:

```
satellite1_alerts

File Edit View

##### Space Command Simulation 1 #####
Russia is at risk of colliding with ['China', 'Ukraine']
China is at risk of colliding with ['Russia', 'Germany', 'Ukraine']
USA is not at risk for a collision.
Germany is at risk of colliding with ['China', 'Ukraine']
Ukraine is at risk of colliding with ['Russia', 'China', 'Germany']
```

Satellite2_alerts.txt:

```
##### Space Command Simulation 2 #####
Australia is not at risk for a collision.
Germany is at risk of colliding with ['Ukraine', 'Egypt']
USA is not at risk for a collision.
Russia is not at risk for a collision.
Ukraine is at risk of colliding with ['Germany', 'Canada', 'Egypt']
China is not at risk for a collision.
Canada is at risk of colliding with ['Ukraine', 'Egypt']
France is not at risk for a collision.
Egypt is at risk of colliding with ['Germany', 'Ukraine', 'Canada']
Mexico is not at risk for a collision.
```

Bbp.py Console output:

```
Windows PowerShell
PS C:\Users\pjsul\OneDrive\Desktop\Johnhopkins Courses\PythonCourse\Unit 6> python bbp.py

K Contribution to the value of  $\pi$ 
10 1.98322539359813e-15
9 3.8871152599097483e-14
8 7.795702954001018e-13
7 1.609187715553699e-11
6 3.447932930508623e-10
5 7.767751215177359e-09
4 1.8789290093772011e-07
3 5.067220853858787e-06
2 0.00016492392411510056
1 0.00808913308913309
0 3.133333333333333

The BBP value of  $\pi$  = 3.141592653589793
The math module value of  $\pi$  = 3.141592653589793
PS C:\Users\pjsul\OneDrive\Desktop\Johnhopkins Courses\PythonCourse\Unit 6> |
```