

ATL WORKSHOP

Classes 9th to 12th

Explore your weight across the solar system using Python Program

The screenshot displays a Zoom meeting interface. On the left, a 'Chat and Polls' sidebar is visible. The 'Polls' section shows a poll titled 'How can we get 6.88888888 as 6.8?' with a progress bar at 41% (7 votes) and a 'Change vote' button. Below the poll, a list of participants is shown, including Chetna@Abhyast, 10B SANKUL MAHAJAN, 10B Krish Gaur, Salyam, Rohit Gupta, Anugya Bhola, Sangita Chadha, saamiya, Maulibhatia, Pratham Choudhary, Aditya Sharma, Kshitij Jadwani, and Swapnil Harshraj. A 'Create a poll' button is at the bottom of the sidebar. The main window shows a Google Colab notebook titled 'IntrotoPython_Weight on planets.ipynb'. The notebook contains a Python program for calculating weight on planets. The code is as follows:

```
Double-click (or enter) to edit

Input

[9] M = int(input("Enter the Mass in Kg"))
    g = float(input("Enter the surface gravity"))
    celestialobject = input("enter the celestial body name")

Enter the Mass in Kg44
Enter the surface gravity.138
float

Processing

[10] W = M * g

Output

print(W)
print("weight on",celestialobject, ":", W,"kg")

6.0720000000000001
weight on Titan : 6.0720000000000001 Kg
```

The Zoom meeting controls at the bottom show a microphone icon, a video camera icon, a chat icon, a hand icon, a screen share icon, and a 'Chetna@Abhyast' name tag. The Zoom status bar at the bottom left shows 'ASEEM'.

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Surface gravity of familiar bodies (Earth = 1)

object	surface gravity
Mercury	0.378
Venus	0.907
Earth	1
Moon	0.166
Mars	0.377
Jupiter	2.36
Europa	0.135
Ganymede	0.145
Saturn	0.916
Titan	0.138
Uranus	0.889
Neptune	1.12
Pluto	0.059
Sun	29.9

Source: <https://www.daviddarling.info/encyclopedia/S/surfacegravity.html>

```

Input
M = 60
g = 1.0
celestialObject="Earth"
  
```

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Chat and Polls

How can we get 6.8888888 as 6.8?

- using round off (16) 100%
- using remove (0) 0%

When u take decision which word do u use

- if (15) 100%
- while (0) 0%

```

Code
Double-click (or enter) to edit

Input
[0] M = int(input("Enter the Mass in Kg"))
    g = float(input("Enter the surface gravity"))
    celestialObject = input("Enter the celestial body name")

Enter the Mass in Kg44
Enter the surface gravity.138
float

Processing
[10] W = M * g

Output
[14] print(round(W))
    print("Weight on",celestialObject, ":", round(W,2),"Kg")

6
Weight on Titan : 6.87 Kg
  
```

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