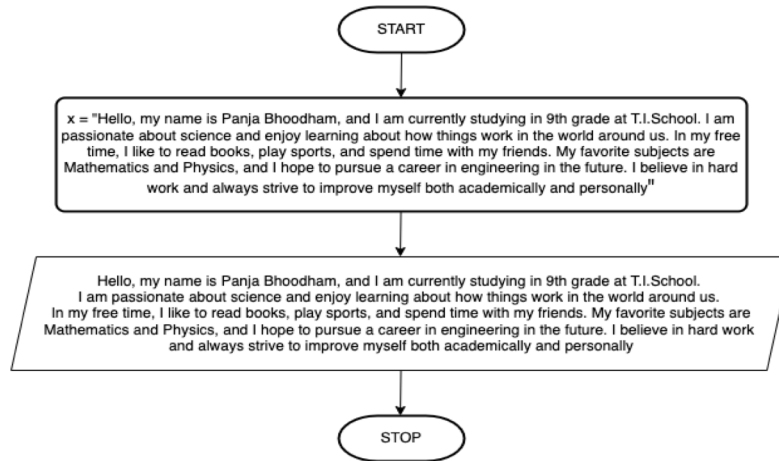


## Left Side

### FLOWCHART:

Use only Pencil for  
flow chart drawing  
and writing



### OUTPUT:

The code's output has to  
be printed and copied  
here.

## Right Side

### About Yourself using print function

#### AIM:

Printing 5 lines about myself using *print()*.

#### TASK:

Write a python code to print 5 lines about myself using 'print' function

#### CODE:

##### # Python program to print the given text in double quotes

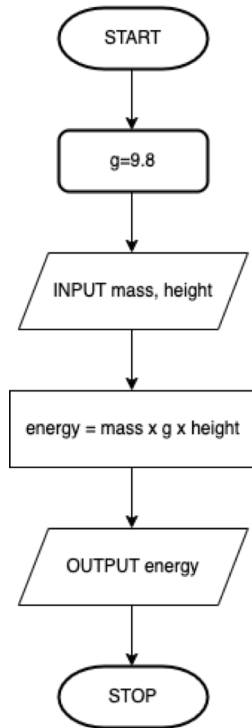
```
text = """Hello, my name is Panja Bhoodham, and I am currently  
studying in 9th grade at T.I.School. I am passionate about science  
and enjoy learning about how things work in the world around us.  
In my free time, I like to read books, play sports, and spend time  
with my friends. My favorite subjects are Mathematics and Physics,  
and I hope to pursue a career in engineering in the future. I believe  
in hard work and always strive to improve myself both academically  
and personally."""
```

##### # Print the text

```
print(text)
```

## Left Side

### FLOWCHART:



Use only Pencil for flow chart drawing and writing

### OUTPUT:

The code's output has to be printed and copied here.

## Right Side

### Calculate energy using formula

#### AIM:

Use of arithmetic operators

#### TASK:

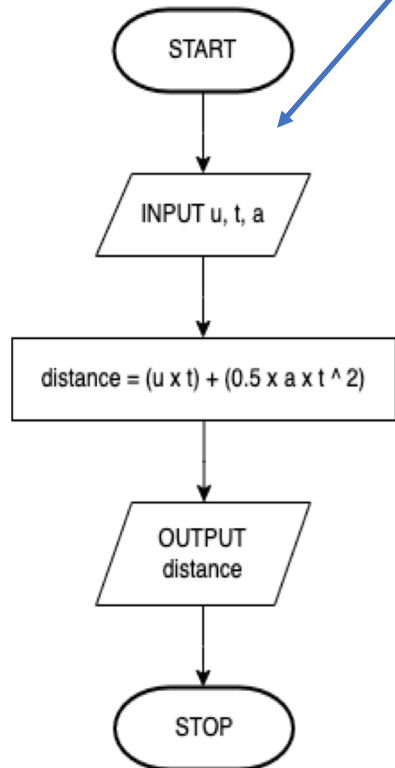
Write a python code to calculate energy using this formula:  $\text{energy} = mgh$

#### CODE:

```
# Given constant for acceleration due to gravity (in m/s^2)
g = 9.8
# Acceleration due to gravity in meters per second squared
# Input values from the user
mass = float(input("Enter the mass of the object in kilograms (kg): "))
height = float(input("Enter the height in meters (m): "))
# Calculate energy using the formula: energy = m * g * h
energy = mass * g * height
# Display the result
print(f"The gravitational potential energy is: {energy} joules")
```

## Left Side

### FLOWCHART:



Use only Pencil for flow chart drawing and writing

### Identifiers:

- Velocity (u)
- Time (t)
- Acceleration (a)

### OUTPUT:

The code's output has to be printed and copied here.

## Right Side

### Calculate distance

#### AIM:

Use of arithmetic operators

#### TASK:

Write a program to calculate distance using the formula  **$\text{distance} = ut + \frac{1}{2} at^2$**

#### CODE:

**# Python program to calculate distance using the formula:**

**# Input values from the user**

```
u = float(input("Enter the initial velocity (u) in meters per second (m/s): "))
```

```
t = float(input("Enter the time (t) in seconds (s): "))
```

```
a = float(input("Enter the acceleration (a) in meters per second squared (m/s²): "))
```

**# Calculate distance using the formula:  $\text{distance} = ut + \frac{1}{2} a t^2$**

```
distance = (u * t) + (0.5 * a * t**2)
```

**# Display the result**

```
print(f"The distance traveled is: {distance} meters")
```