

03-09-25

SEPTEMBER 03

Variables:

It is a place where we store our values; it has names.

*** Rules to declare a variable**

-valid variable declaration

a = 2 A = 2 num = 20 NUM1 = 40 Num3 = 50

-in case of two words, use underscore

StuId = 80998

Stu_id = 127

_stu_name = "Priya"

-We can declare multiple variables at once

a,b,c = 4,5,6 or x=8; y=3; z=6

*** Invalid Variable Declaration**

-we can't start the variable name with a number

-we can't use space and any other special characters apart from underscore

1num=5

stu name = "karthik"

@num\$ = 30

Q: Collect a person's data

Name = str

Age = int

Phone number = str

Numerical data without calculations, we take it in a string

Email id = str

Insta id = str

Address = str

Height = float

Weight = float

Education = str

Work Experience = float

Salary = float

Company Name = str

DOB = str/date

Marital Status = str

Gender = str

Blood Group = str

INPUT AND OUTPUT FUNCTION:

print() - output function

input() - input function

*In case of taking input from the user, if we are not giving any datatype, it defaulty to a string datatype.

```
print(" Hello Good Morning")
```

```
name = input("Enter your name:")
```

```
age = int(input("Enter your age:"))
```

Hello Good Morning

Enter your name: Priyanka

Enter your age:26

type(name)

str

type(age)

int

a = int(input())

b = int(input())

a+b

6

7

13

print(" Hello Good Morning")

name = input("Enter your name:")

age = int(input("Enter your age:"))

print(name,type(name))

print(age,type(age))

Hello Good Morning

Enter your name: Priyanka

Enter your age:26

Priyanka <class 'str'>

26 <class 'int'>

Write a program to read employee data

emp ID, emp name, emp salary

expected output format:

Employee ID = 123

Employee Name = Priyanka

Employee Salary = 45000Rs

```
Employee_ID = int(input("Enter your emp id = "))
```

```
Employee_Name = input("Enter your name = ")
```

```
Employee_Salary = float(input("enter your salary = "))
```

print("Method 01")

```
print("Employee ID = ",Employee_ID,"\nEmployee Name =  
",Employee_Name,"\nEmployee Salary = ",Employee_Salary,"Rs")
```

Enter your emp id = 123

Enter your name = Priyanka

enter your salary = 45000

. format Method

Employee ID = 123

Employee Name = Priyanka

Employee Salary = 45000.0 Rs

```
print(".format Method")
```

```
print("Employee Id = {}\nEmployee Name = {}\nEmployee Salary =  
{Rs}".format(Employee_ID,Employee_Name,Employee_Salary))
```

f string Print Method

Employee Id = 123

Employee Name = Priyanka

Employee Salary = 45000.0Rs

```
print("f string Print Method")
```

```
print(f"Employee Id = {Employee_ID}\nEmployee Name =  
{Employee_Name}\nEmployee Salary = {Employee_Salary}Rs")
```

Employee Id = 123

Employee Name = Priyanka

Employee Salary = 45000.0Rs

Write a program to read student Id,name and 3 subject marks and display their details

Student ID

Student Name

Sub1 Marks

Sub2 Marks

Sub3 Marks

Total Marks

Percentage