00Ps

Object Oriened Progaming OOPs is used in java specially.. but in other language OOps is not is use. whereas C language does not support OOPs, but C++ support OOPs.

```
name="Aayush Gupta"
#String Formatting -> Filling some variables inside string data
print("Hello world{}")
print("Python is an awesome language to learn")
print("But you shold explore other language its alwatys good to be versitile")
#String Formatting -> Filling some variable inside string data
x=int(input("X:"))
y=int(input("Y:"))
r=x+y
# need to put " f " to initate String Formatting
result=f"
 x=\{x\}
  y=\{y\}
\{x\} + \{y\} = \{r\}
print(result);
→ X:5
     Y:25
       x=5
       y=25
       5 + 25= 30
```

Function

a resuable piece of code arguments of parameters

```
def hello(name):
  print(f"Hello {name}")
 print("Python is an awesome language")
  print("But you shold explore other language it's always good to be versitile")
hello("Aayush Gupta")
→ Hello Aayush Gupta
     Python is an awesome language
     But you shold explore other language it's always good to be versitile
hello ("Smruti Prangya")
→ Hello Smruti Prangya
     Python is an awesome language
     But you shold explore other language it's always good to be versitile
name=["Aayush","Abhishek","Smruti","Sneha"]
                           2
#index 0
               1
                                      3
msg="Hello {}, I hope you are enjoying the session."
print(msg.format("Aayush")) #formating the seting
print(name[0])
print(name[2])
→ Hello Aayush, I hope you are enjoying the session.
     Aayush
     Smruti
# another Example
s="Hello my name is {} and i live in {} city."
name="Aavush"
city="Bhubneshawar"
print(s.format(name, city))
Hello my name is Aayush and i live in Bhubneshawar city.
```

```
i=0; # initialization
while i=4: # condition
print(msg.format(name[i]))
i=i+1 # change in state

Hello A, I hope you are enjoying the session.
Hello a, I hope you are enjoying the session.
Hello y, I hope you are enjoying the session.
Hello u, I hope you are enjoying the session.
Hello s, I hope you are enjoying the session.
Hello s, I hope you are enjoying the session.

student -> Real world Entity roll number
name
class section
subject
fees
...
```

→ Why we need OOPs

It is the combination of Data + function together in a single scope

class object --> object function --> method

"class" collection of objects and method

" Object " A real world entity set of features / Attribute to define a real world entity in computer

"method " Object specific function to process object data

```
class human:
    def __add__(h1,h2):
        return f"{h1.name} and {h2.name} are bhai bhai ...!!!"
h1=human()
h1.name="Aayush"
h2=human()
h2.name="Smruti"
print(h1+h2)
```

→ Aayush and Smruti are bhai bhai