

program 1:

```
#print datatype integer  
x=10;  
print(x)  
print(type(x))
```

program 2:

```
#print datatype float  
x=10.5;  
print(x)  
print(type(x))
```

program 3:

```
#print datatype string  
x="HELLO WORLD";  
print(x)  
print(type(x))
```

program 4:

```
#print datatype boolean  
x=False;  
print(x)  
print(type(x))
```

program 5:

```
#print datatype list  
x=["lilly","rose","tulip"]  
print(x)
```

```
print(type(x))
```

program 6:

```
#print datatype dic
```

```
x={"name":"ali","age":40}
```

```
print(x)
```

```
print(type(x))
```

program 7:

```
#print datatype tuple
```

```
x=("lilly","rose","tulip")
```

```
print(x)
```

```
print(type(x))
```

program 8:

```
#addition
```

```
x=2
```

```
y=3
```

```
print(x+y)
```

program 9:

```
#subtraction
```

```
x=2
```

```
y=3
```

```
print(x-y)
```

program 10:

```
#mutliplication
```

```
x=2
y=3
print(x*y)
```

program 11:

```
#division
x=2
y=3
print(x/y)
```

program 12:

```
#=
x=5
print(x)
```

program 13:

```
#+=
x=5
x+=3
print(x)
```

program 14:

```
#-=
x=5
x-=3
print(x)
```

program 15:

```
#*=  
x=5  
x*=3  
print(x)
```

program 16:

```
#EQUAL  
x=5  
y=3  
print(x==y)
```

program 17:

```
#not EQUAL  
x=5  
y=3  
print(x!=y)
```

program 18:

```
#greater than or EQUAL  
x=5  
y=3  
print(x>=y)
```

program 19:

```
#smaller than or EQUAL  
x=5  
y=3  
print(x<=y)
```

program 20:

#AND

x=2

print(x>3 and x<6)

program 21:

#OR

x=7

print(x>9 and x<6)

program 22:

#NOT

x=7

print(not(x>9 and x<6))

program 23:

#is

x=["apple", "banana"]

y=["apple", "banana"]

z=x

print(x is z)

print(x is y)

print(x==y)

program 24:

#is not

x=["apple", "banana"]

```
y=["apple","banana"]
```

```
z=x
```

```
print(x is not z)
```

```
print(x is not y)
```

```
print(x==y)
```

program 25:

```
#in
```

```
x=["apple","banana"]
```

```
print("banana" in x)
```

program 26:

```
#not in
```

```
x=["apple","banana"]
```

```
print("banana" not in x)
```