

Operations of the Input Processor (GasPump-1)

```
Activate(float a, float b) {  
    if ((a>0)&&(b>0)) {  
        d->temp_a=a;  
        d->temp_b=b;  
        m->Activate()  
    }  
}
```

```
Start() {  
    m->Start();  
}
```

```
PayCredit() {  
    m->PayType(1);  
}
```

```
Reject() {  
    m->Reject();  
}
```

```
Cancel() {  
    m->Cancel();  
}
```

```
Approved() {  
    m->Approved();  
}
```

```
Super() {  
    m->SelectGas(2)  
}
```

```
Regular() {  
    m->SelectGas(1)  
}
```

```
StartPump() {  
    m->StartPump();  
}
```

```
PumpGallon() {  
    m->Pump();  
}
```

```
StopPump() {  
    m->StopPump();  
    m->Receipt();  
}
```

Notice:

m: is a pointer to the MDA-EFSM object

d: is a pointer to the Data Store object

Operations of the Input Processor

(GasPump-2)

```
Activate(int a, int b, int c) {  
    if ((a>0)&&(b>0)&&(c>0)) {  
        d->temp_a=a;  
        d->temp_b=b;  
        d->temp_c=c  
        m->Activate()  
    }  
}
```

```
Start() {  
    m->Start();  
}
```

```
PayCash(float c) {  
    if (c>0) {  
        d->temp_cash=c;  
        m->PayType(2)  
    }  
}
```

```
Cancel() {  
    m->Cancel();  
}
```

```
Super() {  
    m->SelectGas(2);  
}
```

```
Premium() {  
    m->SelectGas(3);  
}
```

```
Regular() {  
    m->SelectGas(1);  
}
```

```
StartPump() {  
    m->StartPump();  
}
```

```
PumpLiter() {  
    if (d->cash<(d->L+1)*d->price)  
        m->StopPump();  
    else m->Pump()  
}
```

```
Stop() {  
    m->StopPump();  
}
```

```
Receipt() {  
    m->Receipt();  
}
```

```
NoReceipt() {  
    m->NoReceipt();  
}
```

Notice:

cash: contains the value of cash deposited

price: contains the price of the selected gas

L: contains the number of liters already pumped

cash , *L*, *price* are in the data store

m: is a pointer to the MDA-EFSM object

d: is a pointer to the Data Store object