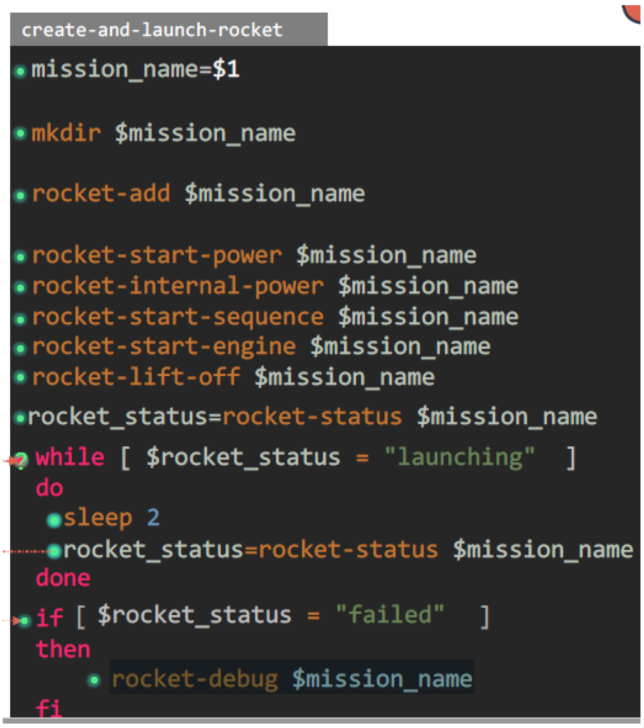
While Loop

- While loop works just like the for loop, except theat it executes the loop as long as the condition is true.
- Execute a command or a set of commands multiple times but you are not sure how many times.
- Execute a command or a set of commands until a specific condition occurs
- Create infinite loops
- Menu driven programs

Examples of while loop

```
mission_name=$1

mkdir $mission_name

rocket-add $mission_name

rocket-start-power $mission_name
rocket-internal-power $mission_name
rocket-start-sequence $mission_name
rocket-start-engine $mission_name
rocket-lift-off $mission_name
rocket_status=rocket-status $mission_name

while [ $rocket_status = "launching" ]
do
 sleep 2
 rocket_status=rocket-status $mission_name
done

if [ $rocket_status = "failed" ]
then
  rocket-debug $mission_name
fi
```



```
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mkdir $mission_name

rocket-add $mission_name

rocket-start-power $mission_name
rocket-internal-power $mission_name
rocket-start-sequence $mission_name
rocket-start-engine $mission_name
rocket-lift-off $mission_name

rocket_status=rocket-status $mission_name
while [ $rocket_status = "launching"  ]
do
  sleep 2
  rocket_status=rocket-status $mission_name
done
if [ $rocket_status = "failed"  ]
then
     rocket-debug $mission_name
fi
```
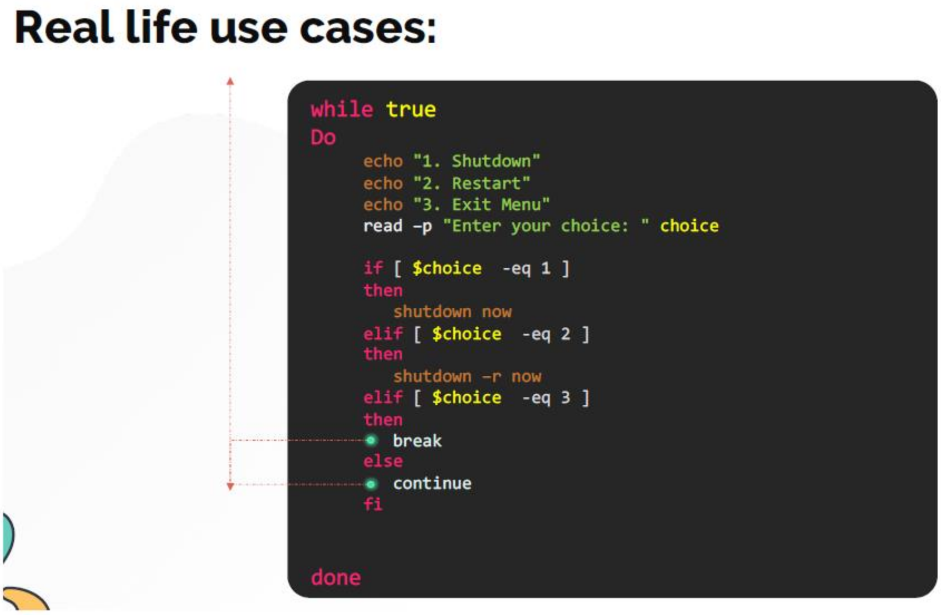

- Real life use case can be :



Real life use cases:

```
while true
Do
        echo "1. Shutdown"
        echo "2. Restart"
        echo "3. Exit Menu"
        read -p "Enter your choice: " choice

        if [ $choice  -eq 1 ]
        then
           shutdown now
        elif [ $choice  -eq 2 ]
        then
           shutdown -r now
        elif [ $choice  -eq 3 ]
        then
           break
        else
           continue
        fi


done
```