Bash Script Code:

```bash
#!/bin/bash
# Check for domain input
if [ -z "$1" ]; then
    echo "Usage: $0 <domain>"
    exit 1
fi
DOMAIN="$1"
LOGFILE="/var/log/blocked_domains.log"
TMPFILE="/tmp/blocked_ips.txt"
> "$TMPFILE"
echo "[+] Resolving IPs for domain: $DOMAIN"
IPS=$(dig +short A "$DOMAIN")
if [ -z "$IPS" ]; then
    echo "[-] No IPs resolved for $DOMAIN"
    exit 2
fi
echo "[+] Blocking resolved IPs..."
for IP in $IPS; do
    echo "Blocking $IP"
    iptables -A INPUT -s "$IP" -j DROP
    echo "$(date) - Blocked $IP from domain $DOMAIN" >> "$LOGFILE"
    echo "$IP" >> "$TMPFILE"
```

done

echo "[+] Blocked IPs saved to $TMPFILE"

echo "[+] Log written to $LOGFILE"

Code Explaination:

_if [-z "$1"]; then

$1 is the domain name passed by the user

_echo "Usage: $0 <domain>"

If no domain is given, it prints usage info and exits

_DOMAIN="$1"

Stores the input domain name into a variable called DOMAIN

_ LOGFILE="/var/log/blocked_domains.log"

_TMPFILE="/tmp/blocked_ips.txt"

- LOGFILE is where we store log entries of blocked IPs.

- TMPFILE temporarily holds the resolved IPs.

_> "$TMPFILE"

Get contents of the temp file (creates it if not exists).

echo "[+] Resolving IPs for domain: $DOMAIN"

script is trying to resolve IPs.

_IPS=$(dig +short A "$DOMAIN")

Uses the dig command to resolve the domain to **IPv4 addresses** (A records).

+short makes the output just the IPs, one per line.

_if [-z "$IPS"]; then

   echo "[-] No IPs resolved for $DOMAIN"

   exit 2

fi

If no IPs were resolved the script notifies and exits.

_echo "[+] Blocking resolved IPs..."

Prints a message before starting the blocking process.

1.Save the script:

bash

CopyEdit

nano block_domain.sh

2. **Make it executable**:

bash

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chmod +x block_domain.sh

3. **Run as root or with sudo**:

bash

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sudo ./block_domain.sh example.com

```
┌──(kali㉿kali)-[~]
└─$ nano block.sh

┌──(kali㉿kali)-[~]
└─$ sudo chmod +x block.sh

[sudo] password for kali:

┌──(kali㉿kali)-[~]
└─$ sudo ./block.sh youtube.com

[+] Resolving IPs for domain: youtube.com
[+] Blocking resolved IPs ...
Blocking 142.251.143.110
[+] Blocked IPs saved to /tmp/blocked_ips.txt
[+] Log written to /var/log/blocked_domains.log
```