# **Program**

```
get_processor_info(){
  case $1 in
    1)
      #Vendor(Manufacturer)ID
      grep -m 1 "vendor_id" /proc/cpuinfo | awk | { | { | print $3}} |
      ;;
    2)
      #Model Name
      grep -m 1 "model name" /proc/cpuinfo | awk | {print $4} '
      ;;
    3)
      #Processor Generation
      grep -m 1 "cpu family" /proc/cpuinfo | awk | fprint $4
    4)
      #Number of processor chips
      grep "physical id" /proc/cpuinfo | sort -u | wc -l
      ;;
    5)
      # Number of processor cores
      grep -m 1 "cpu cores" /proc/cpuinfo | awk | fprint $4
      ;;
    6)
      #Is processor hyperthreaded?
      threads_per_core=$(grep -m 1 "siblings" /proc/cpuinfo | awk | (print $4))
      cores_per_socket=$(grep -m 1 "cpu cores" /proc/cpuinfo | awk | {print $4} |
      if(("$threads_per_core" -gt"$cores_per_socket"));then
        echo "Yes"
      else
        echo "No"
      fi
      ;;
    7)
      #Number of logical processors
      grep -c "processor" /proc/cpuinfo
      ;;
      #Core ID of each logical processor
      grep "processor\|core id" /proc/cpuinfo | awk | processor/| p=$NF| /core id/| print "Log:
      ;;
    9)
      #Speed of each logical processor
      grep "processor\|cpu MHz" /proc/cpuinfo|awk | processor/ p=$NF} /cpu MHz/ print Logica:
      ;;
```

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10)
       #Cache Size
      grep -m 1 "cache size" /proc/cpuinfo | awk | { print $4} |
    *)
     echo "Invalid option. Please try again."
 esac
#Menu driven interface
while true; do
 echo "____"
 echo "Processor information menu"
 echo "_____"
 echo "1.Vendor(Manufacturer)ID"
 echo "2.Model Name"
 echo "3.Processor Generation"
 echo "4.Number of processor chips"
 echo "5.Number of processor cores"
 echo "6.Is your processor hyperthreaded?"
 echo "7. Number of logical processors"
 echo "8.Core ID of each logical processor"
 echo "9.Speed of each logical processor"
 echo "10.Cache size"
 echo "11.Exit"
 echo "_____"
 read -p "Enter your choice[1-11]:" choice
 if(($choice==11));then
   echo "Exiting....Goodbye!"
   break
 fi
 get_processor_info $choice
 echo ""
done
```

# Sample run of the program

## s23a40@Server-2:~/blab\$ bash ex2.sh

## Processor information menu

- 1.Vendor(Manufacturer)ID
- 2.Model Name
- 3.Processor Generation
- 4. Number of processor chips
- 5.Number of processor cores
- 6.Is your processor hyperthreaded?
- 7. Number of logical processors
- 8.Core ID of each logical processor
- 9.Speed of each logical processor
- 10.Cache size
- 11.Exit

Enter your choice[1-11]:1
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## Processor information menu

- 1.Vendor(Manufacturer)ID
- 2.Model Name
- 3.Processor Generation
- 4. Number of processor chips
- 5.Number of processor cores
- 6.Is your processor hyperthreaded?
- 7. Number of logical processors
- 8.Core ID of each logical processor
- 9. Speed of each logical processor
- 10.Cache size
- 11.Exit

Enter your choice[1-11]:2
Intel(R)