Lecture 9

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| 9.1 | while :  do  echo -n .  sleep 1  done | hhuang66@matrix:~/DPS918> 9.1  ........................................ |
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| 9.2 | echo "PID is $$"  rm sig\* exit 2>/dev/null  trap "echo 'hup received'; touch sighup" hup  trap "echo 'int received'; touch sigint" int  trap "echo 'quit received'; touch sigquit" quit  trap "echo 'alrm received'; touch sigalrm" alrm  trap "echo 'term received'; touch sigterm" term  trap "echo 'usr1 received'; touch sigusr1" usr1  trap "echo 'usr2 received'; touch sigusr2" usr2  trap "echo 'exit received'; touch exit" exit  quit=  while [ "$quit" != q ]  do  read -p "Enter something: " quit  done | hhuang66@matrix:~/DPS918> 9.2  PID is 25364  Enter something: hup received  Enter something: int received  Enter something: alrm  Enter something: q  exit received  hhuang66@matrix:~/DPS918> |
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| 9.3 | interrupts=0  trap "((interrupts++)); echo -e \"\nOuch! That's \$interrupts Cntl-C\"" SIGINT  while :  do  if [ $interrupts = 3 ]  then  trap - SIGINT  fi  echo -n .  sleep 1  done | hhuang66@matrix:~/DPS918> 9.3  ......................................................^C  Ouch! That's 1 Cntl-C  ...............................................^C  Ouch! That's 2 Cntl-C  .....^X..  .................................^X....exi.t  ....kill.  .................................................................................  ........................................................................................................................................................................................................ |
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| 9.4 | add() {  sum=0  for num  do  sum=$((sum + num))  done  }  add 23 45 -17  echo $sum | hhuang66@matrix:~/DPS918/Lecture9> 9.4  51 |
|  |  |  |
| 9.5 | add() {  sum=0  for num  do  sum=$((sum + num))  done  echo $sum  }  xxx=$(add 23 45 -17)  echo $xxx | hhuang66@matrix:~/DPS918/Lecture9> 9.5  51 |
|  |  |  |
| 9.6 | add() {  sum=0  for num  do  sum=$((sum + num))  done  return $sum  }  add 23 45 -17  echo $? | hhuang66@matrix:~/DPS918/Lecture9> 9.6  51 |
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| 9.7 | f1() {  declare -l a=1 b  b=2  local c d=4  c=3  e=5  echo "Inside the function: a=$a b=$b c=$c d=$d e=$e"  }  a=0; b=0; c=0; d=0; e=0  f1  echo "Outside the function: a=$a b=$b c=$c d=$d e=$e" | hhuang66@matrix:~/DPS918/Lecture9> 9.7  Inside the function: a=1 b=2 c=3 d=4 e=5  Outside the function: a=0 b=0 c=0 d=0 e=5 |
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| 9.8 | capitalize\_line() {  echo $1 | cut -c1 | tr 'a-z' 'A-Z' | tr -d '\n'  echo "$1" | sed -r 's/^.([^ ]\* \*).\*$/\1/' | tr -d '\n'  if echo $1 | grep ' ' >/dev/null  then  capitalize\_line "$(echo "$1" | sed -r 's/^[^ ]+ +//')"  else  echo  fi  }  [ $1 ] && exec < $1  while read line  do  capitalize\_line "$line"  done | hhuang66@matrix:~/DPS918/Lecture9> 9.8  abc  Abc  123  123  abc@123  Abc@123 |
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