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Programming
Constructs –
case Selection
Statements

2. Selection Statement

1. A selection statement provides for selection between alternatives
2. A program can take certain route depending on a situation and selection statements help in choosing between the routes.

2. Selection Statement Types

1. If statements
2. Case Statements
3. Pattern Matching

Case Statements

```
case expression in  
  pattern1 )  
    statements ;;  
  pattern2 )  
    statements ;;  
esac
```

case statements

```
#!/bin/bash
for filename in $(ls)
do
    # Take extension available in a filename
    ext=${filename##*\.*}
    case "$ext" in
        java) echo "$filename : Java source file"
              ;;
        o)    echo "$filename : Object file"
              ;;
        sh)   echo "$filename : Shell script"
              ;;
        txt)  echo "$filename : Text file"
              ;;
        *)    echo " $filename : Not processed"
              ;;
    esac
done
casefiletype.sh (END)
```

```
Narayans-MacBook-Pro:test narayan$ ./casefiletype.sh
Helloworld.java : Java source file
abc.txt : Text file
casefiletype.sh : Shell script
hello.sh : Shell script
```



UC 4

Solving using Case
Statement

Employee Wage using Case Statement

```
#!/bin/bash -x
isPartTime=1;
isFullTime=2;
empRatePerHr=20;
empCheck=$((RANDOM%3));

case $empCheck in
    $isFullTime)
        empHrs=8
        ;;
    $isPartTime)
        empHrs=4
        ;;
    *)
        empHrs=0
        ;;
esac

salary=$((empHrs*empRatePerHr));
empWageCase.sh (END)
```

```
+ isPartTime=1
+ isFullTime=2
+ empRatePerHr=20
+ empCheck=0
+ case $empCheck in
+ empHrs=0
+ salary=0
```

Compare if & Case Execution Statement

If Execution

```
+ isPartTime=1  
+ isFullTime=2  
+ empRatePerHr=20  
+ randomCheck=0  
+ '[' 2 -eq 0 ']  
+ '[' 1 -eq 0 ']  
+ empHrs=0  
+ salary=0
```

Case Execution

```
+ isPartTime=1  
+ isFullTime=2  
+ empRatePerHr=20  
+ empCheck=0  
+ case $empCheck in  
+ empHrs=0  
+ salary=0
```


Selection Practice Problems with case stattement



1. Read a single digit number and write the number in word using Case
2. Read a Number and Display the week day (Sunday, Monday,...)
3. Read a Number 1, 10, 100, 1000, etc and display unit, ten, hundred,...
4. Write a program that takes User Inputs and does Unit Conversion of different Length units
 1. Feet to Inch
 2. Feet to Meter
 3. Inch to Feet
 4. Meter to Feet



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Thank
You