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Programming Constructs – case Selection Statements

2. Selection Statement

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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

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

Case Statements

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```
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
```

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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