

AWK commands

AWK commands

```
awk 'BEGIN{print "hello"}'
```

AWK commands

```
awk -v name=Ericsson 'BEGIN{printf "Name = %s\n", name}'
```

AWK commands - operators

```
awk 'BEGIN { a = 50; b = 20; print "(a - b) = ", (a - b) }'
```

AWK commands - patterns

```
awk '{print}' marks.txt
```

```
awk '{print $0}' marks.txt
```

```
awk -f command.awk marks.txt
```

```
awk '/a/ {print $4 "\t" $3}' marks.txt
```

```
awk '/y/ {print $0}' marks.txt
```

```
awk '/B/ {print $3 "\t" $4}' marks.txt
```

```
awk 'BEGIN{IGNORECASE=1} /amit/' marks.txt
```

```
awk '$0 ~ 9' marks.txt
```

```
awk '$0 !~ 9' marks.txt
```

AWK commands – records

```
awk 'BEGIN { for (i = 0; i < ARGV - 1; ++i) { printf "ARGV[%d] = %s\n", i, ARGV[i] } }' one two three four
```

```
echo -e "One Two\nOne Two Three\nOne Two Three Four" | awk 'NF > 2'
```

```
echo -e "One Two\nOne Two Three\nOne Two Three Four" | awk 'NR < 3'
```

```
awk 'BEGIN { if (match("One Two Three", "Thre")) { print RSTART } }'
```

```
awk 'BEGIN { if (match("One Two Three", "re")) { print RLENGTH } }'
```

AWK commands - variables

```
awk 'BEGIN { name = "RAJESH"; print "My name is", name }'
```

```
awk 'BEGIN { cnt=100; cnt -= 10; print "Counter =", cnt }'
```

```
awk 'BEGIN { cnt=100; cnt /= 5; print "Counter =", cnt }'
```

```
awk 'BEGIN { cnt=2; cnt ^= 4; print "Counter =", cnt }'
```

```
awk 'BEGIN { cnt=2; cnt **= 4; print "Counter =", cnt }'
```

AWK commands – relational operators

```
awk 'BEGIN { a = 10; b = 10; if (a == b) print "a == b" }'
```

```
awk 'BEGIN { a = 10; b = 10; if (a >= b) print "a >= b" }'
```

```
awk 'BEGIN { str1="Hello, "; str2="World"; str3 = str1 str2; print str3 }'
```


AWK commands - arrays

```
awk 'BEGIN {  
  fruits["mango"]="yellow";  
  fruits["orange"]="orange"  
  print fruits["orange"] "\n" fruits["mango"]  
}'
```

```
awk 'BEGIN {  
  fruits["mango"]="yellow";  
  fruits["orange"]="orange";  
  delete fruits["orange"];  
  print fruits["orange"]  
}'
```

AWK commands - conditions

```
awk 'BEGIN {num = 11; if (num % 2 == 0) printf "%d is even number.\n",  
num; else printf "%d is odd number.\n", num }'
```

```
awk 'BEGIN {  
a=30;  
if (a==10)  
    print "a = 10";  
else if (a == 20)  
    print "a = 20";  
else if (a == 30)  
    print "a = 30";  
'
```

AWK commands - loops

```
awk 'BEGIN { for (i = 1; i <= 5; ++i) print i }'
```

```
awk 'BEGIN {i = 1; while (i < 6) { print i; ++i } }'
```

```
awk 'BEGIN {i = 1; do { print i; ++i } while (i < 6) }'
```

```
awk 'BEGIN {sum = 0; for (i = 0; i < 20; ++i) { sum += i; if (sum > 50) break;  
else print "Sum =", sum } }'
```

```
awk 'BEGIN {sum = 0; for (i = 0; i < 20; ++i) { sum += i; if (sum > 50)  
exit(10); else print "Sum =", sum } }'
```

AWK commands - strings

```
awk 'BEGIN {  
    str = "Hello, World !!!"  
  
    print "Length = ", length(str)  
}'
```

AWK commands - strings

```
awk 'BEGIN {  
    str = "One Two Three"  
    subs = "Two"  
  
    ret = match(str, subs)  
  
    printf "Substring \"%s\" found at %d location.\n", subs, ret  
'
```

AWK commands - strings

```
awk 'BEGIN {  
    str = "Hello, World !!!"  
    subs = substr(str, 1, 5)  
  
    print "Substring = " subs  
}'  
  
sum } }'
```