

DATA WAREHOUSING & DATA MINING

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CSE - 321

Goal

Implement the given questions

Note

I have used built in software to upload this code on RPubs, code with output is printed in a neat and clean way.

https://rpubs.com/Panda_250/993053

Code

#2020BCS0094

```
# Create a R program to check whether the number is odd or even.
```

```
# Reading input and converting it to integer
inp = readline()
inp = as.integer(inp)

# condition to find weather even or odd
if( inp %% 2 == 0 ){
    print(paste(inp,"is even"))
}else{
    print(paste(inp,"is odd"))
```

```
}
# Write a R-program to find the factorial of a number
# using a for loop
factorio<-1
for(x in 1:inp){
factorio = factorio * x
}
print(factorio)
# using a while loop
factorio = 1
x = 1
while(x<=inp){
factorio = factorio * x
x=x+1
}
print(factorio)
# using user defined function
fac<-function(inp){</pre>
factorial(inp)
}
fac(inp)
```

```
# Write a R-program to find the sum of natural numbers
# using a for loop
sum1<-0
for(i in 1:inp){
sum1= sum1+ i
}
print(sum1)
# using a while loop
sum2=0
i=0
while(i <= inp){
sum2=sum2+i
i=i+1
}
print(sum2)
# using a user defined function
sumfunc<-function(inp){</pre>
inp = (inp * (inp + 1)) / 2;
print(sumfunc(inp))
```

```
# Create a R program to find a number is prime or not
primeOrNot<-function(inp){</pre>
 flag = TRUE
for(z in 2:(inp-1)){
       if((inp \%\% z) == 0){
       print(z)
       flag = FALSE
       }
 }
 if(flag){
       print(paste(inp,"is prime"))
}else{
       print(paste(inp,"is not prime"))
}
}
primeOrNot(inp)
# Write a R program to perform matrix multiplication
A <- matrix(1:6, nrow=2)
Α
B<- matrix(1:6,ncol=2)
```

В

Matrix Multiplication

A%*%B