## 120BM0799(ABHINAV JHA)

## **ASSIGNMENT 2**

```
Q1.
a=rand(3,3);
b=zeros(3,3);
for i=1:3
  for j=1:3
     if(a(i,j)>0.5)
       b(i,j)=1;
     end
  end
end
Q2
fprintf("For 1st Matrix \n");
row =input("number of rows??");
col=input("number of coloumns");
a=zeros(row,col);
for i=1:row
  for j=1:col
    fprintf("Enter element for location %d,%d",i,j);
    a(i,j)=input("");
  end
end
fprintf("For 2nd Matrix \n");
row =input("number of rows??");
col=input("number of coloumns");
b=zeros(row,col);
for i=1:row
  for j=1:col
    fprintf("Enter element for location %d,%d",i,j);
    b(i,j)=input("");
  end
end
[ra, ca] = size(a);
[rb, cb] = size(b);
c = zeros(ra, cb);
for row = 1 : ra
for col = 1 : cb
  Sum = 0;
  for k = 1 : ca
   Sum = Sum + a(row, k) * b(k, col);
  c(row, col) = Sum;
 end
end
```

```
Q3
row =input("number of rows??");
col=input("number of coloumns");
a=zeros(row,col);
for i=1:row
  for j=1:col
    fprintf("Enter element for location %d,%d",i,j);
    a(i,j)=input("");
  end
end
for i=1:row
  for j=1:col
    k=a(i,j);
    if (mod(a(i,j),2)==0)
       a(i,j)=a(i,j)*a(i,j);
    else
       a(i,j)=a(i,j)*a(i,j)*a(i,j);
    end
  end
```

```
\begin{array}{l} Q4 \\ x = 0: pi/12: 2*pi; \\ y1 = sin(x); \\ y2 = cos(x); \\ y3 = tan(x); \\ plot(x,y1); \\ plot(x,y2); \\ plot(x,y3); \\ \% \ OR \ plot(x,y1,x,y2,x,y3); \end{array}
```

end