

Paragraph Mapping Extension

TOPIC : Money Heist

Features Available -

Message Encryption (sent by Professor to rest of Daali)

Existing

This will mainly include missions to be fulfilled by each of Daali.

Message Decryption (sent by rest of Daali to Professor)

New [ANSWER -1]

These will include mission reports in coded language sent by Daali members which will be decoded at professor's end.

First word of the Message will depict the name of the person concerned - The daali himself if the mission is successfully completed, or fellow member.

Third word will depict the place of the mission. After that reason will be written adhering to the present consequences.

Atmost, there will be 6 words and at least 3 words contained in Daali's message.

The Daali's message will be decoded on the basis of the length of the message they sent.

Length	Meaning	Structure
3	Mission Successful	[Daali's name + at + Place]
4	Mission Suspended	[Daali's name + at + Place + Reason]
5	Mission Aborted	[Daali's name + at + Place + Reason]
6	Help Required	[Daali's name + at + Place + Reason]

The following is a list of Daali's and their Pen Names

Sr. No.	Daali's Name	Pen Name
1.	Professor	Jackson
2.	Rio	Rose
3.	Tokyo	Blake
4.	Oslo	Ola
5.	Moscow	Margo
6.	Nairobi	Nelly
7.	Berlin	Barbra
8.	Helsinki	Helsi

Examples of above mentioned functionality are given below :-





message

From

ola

Send Message

'us_all at embassy power_banks required'


Professor Recieves

oslo says mission_aborted at mint by daali !

Reason : bullets required

true

Previously, only Professor's messages were encrypted by the program.

 message

From

professor

To

rio

Send Message

'get handgrenade for masterplan'

| Encrypted Message Sent To rose

get ipod for trip

From jackson

true

PROGRAM

%Dictionary to encode and decode the messages

change(hostages, friends).
change(weapon, mobile).
change(weapons, mobiles).
change(bomb, ipad).
change(bombs, ipads).
change(professor, jackson).
change(rio, rose).
change(tokyo, blake).
change(helsinki, helsi).
change(oslo, ola).
change(berlin, barbra).
change(moscow, margo).
change(nairobi, nelly).
change(mint, embassy).
change(find, check).
change(weaklinks, visa).
change(bullets, power_banks).
change(bullet, power_bank).
change(machinegun, iphonemax).
change(machineguns, iphonemax).
change(working, dreaming).
change(masterplan, trip).
change(robbery, game).
change(ak47, iphonexs).
change(car_bomb, macpro).
change(car_bombs, macpro).
change(time_bomb, ipadair).
change(handgrenade, ipod).
change(handgrenades, ipods).
change(kg, gb).
change(rdx, pendrive).
change(rob, attend).
change(royalmint, fifa).
change(knock_off, entertain).
change(cops, kids).
change(cop, kid).
change(loaded, spoiled).
change(load, spoil).
change(stuff, luxury).
change(bullets, power_banks).

```
change(daali, batteries).
change(shot,slapped).
change(daali,us_all).
change(S,S).
```

```
% Function to print the List
write_list([]).
write_list([H|T]):-
write(H),
write(' '),
write_list(T).
```

```
% Function to decrypt Daali's Hidden Message Based on Length of Message
dec_msg(3,mission_successful).
dec_msg(4,mission_suspended).
dec_msg(5,mission_aborted).
dec_msg(6,help_required).
```

```
% To find First Word of the message that mentions name of concerned Daali
dname([H|_],H).
```

```
% To find Second Word of the message that mentions Place of mission
place([_,_,H|T],H,T).
```

```
% To Decode Rest of Daali's Message Word by Word
decode(A):-
    change(B,A),
    write(B), write(' ').
```

```
% To Decode Rest of Daali's Message
rsn([]).
rsn([H|T]):-
    decode(H),
    rsn(T).
```

```
% To encode Msg Sent By The Professor
msg_from(professor):-
write('To '),
read(Q),
write('Send Message'),nl,
```

```

read(X),
atomic_list_concat(L, ' ',X),
alter(L,V),nl,
write('-----'),nl,
write('| Encrypted Message Sent To '),change(Q,A),write(A),nl,
write('-----'),nl,
write_list(V), nl,
write('-----'),nl,
write('From '),change('professor',O),write(O),nl,
write('-----'),nl.

```

% To decyrpt messages of Daali's

msg_from(A):-

```

    write('Send Message'),nl,
    read(X),
    atomic_list_concat(L, ' ',X),
    length(L,Len),
    write('-----'),nl,
    write('Professor Recieves'),nl,
    write('-----'),nl,
    decode(A), write(' says '), dec_msg(Len,Y),write(Y),
    write(' at '), place(L,P,R),decode(P),
    write(' by '),dname(L,N),decode(N),
    write('!'),nl , write('Reason : '), rsn(R) .

```

% To encrypt Professor's Message Word By Word

alter([],[]).

alter([H|T],[M|N]):-

change(H,M),

alter(T,N).

message():-

```

    write('From '),
    read(P), nl,
    msg_from(P).

```