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Roll no: 5703

Subject: Information Security Practical Outputs

```
*****Caesar Cipher Method*****
```

```
Enter 1 for Encrypt a message....
```

```
Enter 2 for Decrypt a message....
```

```
Enter 3 for Exit....
```

```
Enter >> 1
```

```
Enter PlainText to Encrypt: ABCXYZ123
```

```
--> Encoded Message CipherText: DEFABC123
```

```
Want to run the program again? (Y/N):y
```

```
Enter 1 for Encrypt a message....
```

```
Enter 2 for Decrypt a message....
```

```
Enter 3 for Exit....
```

```
Enter >> 2
```

```
Enter CipherText to Decrypt: DEFABC123
```

```
--> Decoded Message PlainText: ABCXYZ123
```

```
*****Monoalphabetic Cipher Method*****

Enter 1 for Encrypt a message....
Enter 2 for Decrypt a message....
Enter 3 for Exit....
Enter >> 1

Enter PlainText to Encrypt:HelloWorld

Enter your key:6

--> Encoded Message CipherText: Nkrrucuxrj

Want to run the program again? (Y/N):y

Enter 1 for Encrypt a message....
Enter 2 for Decrypt a message....
Enter 3 for Exit....
Enter >> 2

Enter CipherText to Decrypt:Nkrrucuxrj

Enter your key:6

--> Decoded Message PlainText: HelloWorld

Want to run the program again? (Y/N):_
```

*****Vernam Cipher Method*****

Enter 1 for Encrypt a message....

Enter 2 for Decrypt a message....

Enter 3 for Exit....

Enter >> 1

Enter PlainText to Encrypt:hellomate

Enter your key:123gf

--> Encoded Message CiperText: YW_♂ \SG☹

--> Decoded Message PlainText: hellomate

Want to run the program again? (Y/N):

*****Playfair Cipher Method*****

Enter 1 for Encrypt a message....

Enter 2 for Decrypt a message....

Enter 3 for Exit....

Enter >> 1

Enter PlainText to Encrypt:attackatonce

Enter your keyword:playfair

Matrix:

	P		L		A		Y		F	
	I		R		B		C		D	
	E		G		H		K		M	
	N		O		Q		S		T	
	U		V		W		X		Z	

--> Encoded Message CiperText: FQQFKSFQQOIK

Want to run the program again? (Y/N):y

--> Encoded Message CiperText: FQQFKSFQQOIK

Want to run the program again? (Y/N):y

Enter 1 for Encrypt a message....

Enter 2 for Decrypt a message....

Enter 3 for Exit....

Enter >> 2

Enter CiperText to Decrypt:FQQFKSFQQOIK

Enter your keyword:playfair

Matrix:

	P		L		A		Y		F	
	I		R		B		C		D	
	E		G		H		K		M	
	N		O		Q		S		T	
	U		V		W		X		Z	

--> Decoded Message PlainText: ATTACKATONCE

Want to run the program again? (Y/N):

*****Hill Cipher Method*****

Enter 1 for Encrypt a message....

Enter 2 for Decrypt a message....

Enter 3 for Exit....

Enter >> 1

Enter PlainText to Encrypt:paymoremoney

Enter key matrix for encryption

Enter elements of 3x3 Key Matrix:

-->17

-->17

-->5

-->21

-->18

-->21

-->2

-->2

-->19

Cipher Text :- RRLMWBKASPDH

Want to run the program again? (Y/N):y

Enter 1 for Encrypt a message....

Enter 2 for Decrypt a message....

Enter 3 for Exit....

Enter >> 2

Enter CipherText to Decrypt:RRLMWBKASPDH

Enter key matrix for decryption

Enter elements of 3x3 Key Matrix:

-->17

-->17

-->5

-->21

-->18

-->21

-->2

-->2

-->19

Plain Text :- paymoremoney

Want to run the program again? (Y/N):

*****Rail Fence Transposition Cipher Method*****

Enter 1 for Encrypt a message....

Enter 2 for Decrypt a message....

Enter 3 for Exit....

Enter >> 1

Enter PlainText to Encrypt:attackatonce

Enter your key number:2

a|-|t|-|c|-|a|-|o|-|c|-|

|t|-|a|-|k|-|t|-|n|-|e|

--> Encoded Message CipherText: atcaoctaktne

Want to run the program again? (Y/N):y

Enter 1 for Encrypt a message....

Enter 2 for Decrypt a message....

Enter 3 for Exit....

Enter >> 2

Enter CipherText to Decrypt:atcaoctaktne

Enter your key number:2

a|-|t|-|c|-|a|-|o|-|c|-|

|t|-|a|-|k|-|t|-|n|-|e|

--> Decoded Message PlainText: attackatonce

Want to run the program again? (Y/N):

*****Row Transposition Cipher*****

Enter 1 for Encrypt a message....

Enter 2 for Decrypt a message....

Enter 3 for Exit....

Enter >> 1

Enter PlainText to Encrypt:attackthereatonce

Enter Key as String: 12543

Plain Text Matrix:-

A	T	T	A	C
---	---	---	---	---

K	T	H	E	R
---	---	---	---	---

E	A	T	O	N
---	---	---	---	---

C	E	X	X	X
---	---	---	---	---

Cipher Text :-

ATCATKTREHEANOTCEXXX

Want to run the program again? (Y/N):y

Enter 1 for Encrypt a message....

Enter 2 for Decrypt a message....

Enter 3 for Exit....

Enter >> 2

Enter CiperText to Decrypt:ATCATKTREHEANOTCEXXX

Enter Key as String: 12543

Cipher Text Matrix:-

A	T	C	A	T
---	---	---	---	---

K	T	R	E	H
---	---	---	---	---

E	A	N	O	T
---	---	---	---	---

C	E	X	X	X
---	---	---	---	---

Plain Text :- ATTACKTHEREATONCE

*****Product Cipher*****

Enter 1 for Encrypt a message....

Enter 2 for Decrypt a message....

Enter 3 for Exit....

Enter >> 1

Enter PlainText to Encrypt:attackherenow

Enter Key as String: 12534

Plain Text Matrix:-

A|T|T|A|C|

K|H|E|R|E|

N|O|W|X|X|

Cipher Text :-

1st:ATACTKHREENOXXW

Plain Text Matrix:-

A|T|A|C|T|

K|H|R|E|E|

N|O|X|X|W|

Cipher Text :-

2nd:ATCTAKHEERNOXWX

Want to run the program again? (Y/N):

*****Stream Cipher Method*****

Enter Message: hellothere

Encrypted Message: 7à↑¼Δ@{¼

Decrypted Message: hellothere

Want to run the program again? (Y/N):