

Q=3 Ans

NAME - PRANDEEP GUSAIN

RollNO. 1121103 (22)

Q=3 Ans=3 Vignere

```
def generatekey (String, Key) :
```

```
    Key = list (key)
```

```
    If len (String) == len (key) :
```

```
        return (key)
```

```
    else :
```

```
        for i in range (len (String) - len (key)) :
```

```
            Key.append (key [i % len (key)])
```

```
    return ( "", join (encrypt_text))
```

```
def encryption (String, key) :
```

```
    encrypt_text = []
```

```
    for i in range (len (String)) :
```

```
        X = (ord (String[i]) + ord (key[i])) % 26
```

```
        X = X + ord ('A')
```

```
        encrypt_text.append (chr (X))
```

```
    return ( " ", join (encrypt_text))
```

```
def decryption (encrypt_text - key) :
```

```
    original_text = []
```

```
    For i in range (len (String)) :
```

```
        X = (ord (String[i]) + ord (key[i])) % 26
```

```
        X = X + 65
```

```
        Original_text.append (chr (X))
```

```
    return ( " ", join (original_text))
```

```
if __name__ == "__main__":
```

```
encrypt =
```

```
S =
```

```
S = " Cryptography "
```

```
key =
```

```
String = S.upper()
```

```
key = generatekey (String keyword = " Monarchy "
```

```
key = generatekey (String keyword)
```

```
encrypt-text := encryption (String, key)
```

```
Print ("encrypted msg : ", encrypt-text)
```

brader