

## MCQ

1. Asymmetric key encryption with sender public
2. Spyware
3. An authentication of an electronic record.
4. Cyber laws
5. Only on alphanumeric
6. Idea is same title is different.
7. hash value
8. To identify of the character is changed while its position remain unchanged
9. ~~to make digraph~~ both b and c
10. Possibility of replacements

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Q1

- (i) Protect against suspicious messages & context - Hackers can use emails, text messages, phone calls, & web pages to pretend to be institutions, family members or colleagues.
- Avoid suspicious requests
  - Avoid suspicious email
  - Avoid suspicious web pages
- (ii) Update your software - If your browser, operating system, or apps are out of date the software might not be safe from hackers.
- Update your browser, apps & operating system.
- (iii) Use unique, strong passwords - It's risky to use the same passwords on multiple sites. If password for one site is hacked it could be used to get into your accounts for multiple sites.
- Manage your password
  - protect your password from hackers

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Q4

```
#import library
import math.random
# function to generate OTP
def generate OTP():
    # declare a digits variable
    # which stores all digits
    digits = "0123456789"
    OTP = ""
    # length of password can be
    # changed
    # by changing value in range
    for i in range(4):
        OTP += digits [math.floor (random.
            random () * 10)]
    return OTP
# Driver code
if __name__ == "__main__":
    print("OTP of 4 digits : ", generate
        OTP())
```

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### Q5 Encryption

```
def encrypt(string):  
    cipher = ""  
    for char in string:  
        if char == ' ':  
            cipher = cipher + char  
        elif char.isupper():  
            cipher = cipher + chr((ord(char) +  
                                    3 - 65) % 26 + 65)  
        else:  
            cipher = cipher + chr((ord(char) + 3 - 97)  
                                    % 26 + 97)  
    return cipher  
text = "Attack from North"  
print("After Encryption: ", encrypt(text))
```

### Decryption

```
def decrypt(string):  
    plain = ""  
    for char in string:  
        if char == ' ':  
            plain = plain + char  
        elif char.isupper():  
            plain = plain + chr((ord(char) - 3 - 65)  
                                % 26 + 65)  
        else:  
            plain = plain + chr((ord(char) - 3 - 97)  
                                % 26 + 97)  
    return plain  
text = "  
print("After decryption: ", decrypt(text))
```

*Dhairya*