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Ans1. The three security aspects of google account are—

1→ **Prevent unauthorized access to your account** → Advance Protection requires security keys for sign in to help protect your google data, like emails, documents, contacts or other personal googal data. Even if a hacker has your username and password they can't sign in without your security key.

2→ **Provides extra protection from Harmful downloads** → Advanced protection performs extra checks on the downloads. When downloading a file that may be harmful, it notifies you or blocks the download. On your Android phone, only apps from verified stores are allowed.

3→ **Keeps your Personal Information Secure** → To prevent unauthorized access, Advanced protection only allows

google apps and verified third-party apps to access 'your google account data, and only with your permission.

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Ans 2→ The Security aspects of the Browser are-

1→ filtering out bad sites → firefox's built in antiphising tool claims to update its bad-site database 48 times a day, according to Mozilla, firefox security page. Firefox 3 uses Google Safe Browsing service to automatically block sites that are known to host malware.

2→ Browsing in Private → To activate private browsing in firefox 3, click Tools > Start Private Browsing, or simply press Ctrl-Shift-P. You can set firefox to start in private-browsing mode by clicking Tools > Options > Privacy and check Automatically start firefox in a private browsing session." The Mozilla support site provides more information about this feature.

8. Automatic and not-so automatic browser updates →

Patching is a way of life with nearly all software, but especially with browsers and the media players associated with them. Adobe Reader, the Flash Player, Apple's Quick Time, and Sun's Java among others. All of a browser's security features can be rendered useless by a piece of malware that takes advantage of an unpatched hole in the program.

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Ans 4 →

```
# import library
import math, random
def generateOTP():

    digits = "0123456789"
    OTP = " "

    for i in range (4):
        OTP += digits [math.floor ( random.random()

    * 10)]
        return OTP

if --name--= " --main --"

    print ("OTP of 4 digits:" , generateOTP())
```

Saurav

Generating Alphanumeric OTP of Length 6

```python
# import library
import math, random

def generateOTP():
    string = "0123456789 abcd efghij ABCD"
    OTP = ""
    length = leng( string )
    for i in range (6):
        OTP += string [math.flood (random.random()
                        * length )]
    return OTP


if __name__ == "__main__"
    print ("OTP of length 6:", generateOTP()
```