N5 **Computing Homework**

Information Systems
Design & Development

Grade: / 14

Security Risks & Precautions - 1

Name:

Answer the questions below in the spaces provided.

Megan studies Computing at school, and uses her home PC often for surfing the Internet. She is currently learning about viruses and computer security.

1. State what is meant by the term 'Virus'. (1)

_____

2. Megan thinks she may have a virus on her computer.
State **two** examples of what Megan could look for to confirm her computer has a virus. (2)

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_____

3. When she is using the Internet, Megan knows she must be aware of online fraud. State one example of online fraud and suggest a way Megan could prevent this from happening to her. (2)

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4. Megan's Anti-virus software protects her computer from viruses, Trojans and worms.

a) What is a Trojan? (1)

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_____

b) Megan's anti-virus software finds a program on her computer that has been recording information about the websites she visits. It has also changed the settings of her computer.

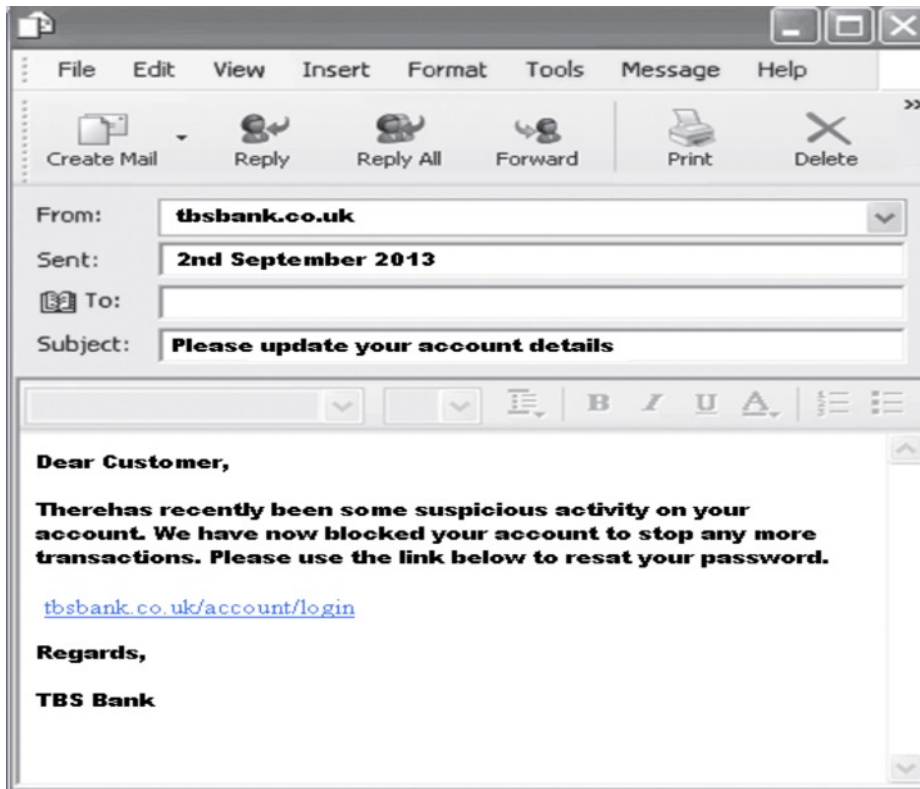What **type** of program has the anti-virus detected? Explain your answer. (2)

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5. Megan is sending files wirelessly between computers on her home network. However, she is concerned about the security involved. What could Megan do to her files before she sends them? (1)

_____

6. Megan's mother has received an email from her bank, claiming that her account has been locked. Megan tells her mother to be careful, as this email may not be genuine.

a) Explain why Megan may believe that this email is not genuine. You should refer to **two** examples from the email above. (2)

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_____

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b) Explain why emails, such as the one above, can pose a security risk if the recipient clicks on the link. (2)

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7. Megan's mother finds out that her bank recently fell victim to an attack on it's network. The attack left the users unable to access files, use printers or connect to the Internet.

What **type** of attack was this? (1)

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