

QUESTION 1

```
C:\Windows\System32\cmd.e X + v
Microsoft Windows [Version 10.0.26100.2894]
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C:\dhara>curl -X "GET" "https://localhost:7083/api/q1/welcome"
Welcome to 5125!
C:\dhara>
```

QUESTION 2

```
C:\Windows\System32\cmd.e X + v
Microsoft Windows [Version 10.0.26100.2894]
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C:\dhara>curl -X "GET" "https://localhost:7083/api/q2/greeting?name=dhara"
Hi dhara!
C:\dhara>curl -X "GET" "https://localhost:7083/api/q2/greeting?name=123"
Hi 123!
C:\dhara>curl -X "GET" "https://localhost:7083/api/q2/greeting?name=$%^"
Hi $%^!
C:\dhara>curl -X "GET" "https://localhost:7083/api/q2/greeting?name=\"
Hi \"!
C:\dhara>curl -X "GET" "https://localhost:7083/api/q2/greeting?name=/"
Hi /!
C:\dhara>curl -X "GET" "https://localhost:7083/api/q2/greeting?name=\\\"
Hi \\!
C:\dhara>curl -X "GET" "https://localhost:7083/api/q2/greeting?name="
{"type": "https://tools.ietf.org/html/rfc9110#section-15.5.1", "title": "One or more validation errors occurred.", "status": 400, "errors": {"name": ["The name field is required."]}, "traceId": "00-f4d2d6b73e474a5902412f29cf5e510b-86addeb13c0cfda9-00"}
C:\dhara>curl -X "GET" "https://localhost:7083/api/q2/greeting?name= "
curl: (3) URL rejected: Malformed input to a URL function
C:\dhara>
```

QUESTION 3

```
C:\Windows\System32\cmd.e  X + v
Microsoft Windows [Version 10.0.26100.2894]
(c) Microsoft Corporation. All rights reserved.

C:\dhara>curl -X "GET" "https://localhost:7083/api/q1/welcome"
Welcome to 5125!
C:\dhara>curl -X "GET" "
C:\dhara>curl -X "GET" "

C:\dhara>curl -X "GET" "https://localhost:7083/api/q2/greeting?name=Dhara"
Hi Dhara!
C:\dhara>curl -X "GET" "https://localhost:7083/api/q3/cube/5"
curl: (7) Failed to connect to localhost port 7083 after 2237 ms: Could not connect to server

C:\dhara>curl -X "GET" "https://localhost:7083/api/q3/cube/5"
125
C:\dhara>curl -X "GET" "https://localhost:7083/api/q3/cube/abc"
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.,"status":400,"errors":{"baseNumber":["The value 'abc' is not valid."]},"traceId":"00-3b85959aa493a5f9c4b545b44a9cbc19-5ad9da6a88f2b3ee-00"}
C:\dhara>curl -X "GET" "https://localhost:7083/api/q3/cube/-7"
-343
C:\dhara>curl -X "GET" "https://localhost:7083/api/q3/cube/7.6"
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.,"status":400,"errors":{"baseNumber":["The value '7.6' is not valid."]},"traceId":"00-387fe6a6a48502fdf196d28ff7280640-b7de98f3390b340d-00"}
C:\dhara>curl -X "GET" "https://localhost:7083/api/q3/cube/"
C:\dhara>
```

QUESTION 4

```
C:\Windows\System32\cmd.e  X + v
Microsoft Windows [Version 10.0.26100.2894]
(c) Microsoft Corporation. All rights reserved.

C:\dhara>curl -X "POST" "https://localhost:7083/api/q4/knockknock"
Who's there?
C:\dhara>curl -X "GET" "https://localhost:7083/api/q4/knockknock"
C:\dhara>
```

QUESTION 5

```
C:\Windows\System32\cmd.e X + v
Microsoft Windows [Version 10.0.26100.2894]
(c) Microsoft Corporation. All rights reserved.

C:\dhara>curl -X "POST" "https://localhost:7083/api/q5/secret"
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.16","title":"Unsupported Media Type","status":415,"traceId":"00-cbe44ac989ee586fa3dcad76d01b4567-aca6a62d5f8c1a22-00"}
C:\dhara>curl -X "POST" -d "https://localhost:7083/api/q5/secret"
curl: (2) no URL specified
curl: try 'curl --help' for more information

C:\dhara>curl -X "POST" -d "5" "https://localhost:7083/api/q5/secret"
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.16","title":"Unsupported Media Type","status":415,"traceId":"00-caf8443ce4b6863437cc1ac6e80fac6c-ed438479fa0a30e9-00"}
C:\dhara>curl -X "POST" "https://localhost:7083/api/q5/secret" -d "5"
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.16","title":"Unsupported Media Type","status":415,"traceId":"00-e4581193b0cd05636db9d6d3e4ca29b8-9d03080529fc513d-00"}
C:\dhara>curl -X "POST" "https://localhost:7083/api/q5/secret" -d "5" -H 'Content-Type: application/json'
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.16","title":"Unsupported Media Type","status":415,"traceId":"00-932f275c5f6141ee22feae0ecfa9286a-8b2d802ab50787fc-00"}curl: (6) Could not resolve host: application

C:\dhara>curl -X "POST" "https://localhost:7083/api/q5/secret" -d "5" -H "Content-Type: application/json"
Shh.. the secret is 5
C:\dhara>curl -X "POST" "https://localhost:7083/api/q5/secret" -d "5" -H "Content-Type: application/json"
Shh.. the secret is 5
C:\dhara>|
```

QUESTION 6

```
C:\Windows\System32\cmd.e X + v
Microsoft Windows [Version 10.0.26100.3037]
(c) Microsoft Corporation. All rights reserved.

C:\dhara>curl -X "https://localhost:7083/api/q6/side?side=3"
curl: (2) no URL specified
curl: try 'curl --help' for more information

C:\dhara>curl -X "https://localhost:7083/api/q6/hexagon?side=4"
curl: (2) no URL specified
curl: try 'curl --help' for more information

C:\dhara>curl -X GET "https://localhost:7083/api/q6/hexagon?side=4"
41.569219381653056
C:\dhara>curl -X GET "https://localhost:7083/api/q6/hexagon?side="
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.","status":400,"errors":{"side":["The value '' is invalid."]},"traceId":"00-f657916415bf52494284b4bf13f98a92-e4726e39bad0a7ca-00"}
C:\dhara>curl -X GET "https://localhost:7083/api/q6/hexagon?side=d"
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.","status":400,"errors":{"side":["The value 'd' is not valid."]},"traceId":"00-b89ae7e58cd5aec2d6eeb208ff491bcb-cdf572cae3867bf2-00"}
C:\dhara>curl -X GET "https://localhost:7083/api/q6/hexagon?side=4.8"
59.859675909580396
C:\dhara>|
```

QUESTION 7

```
C:\Windows\System32\cmd.e  x  +  v

Microsoft Windows [Version 10.0.26100.3037]
(c) Microsoft Corporation. All rights reserved.

C:\dhara>curl -X GET "https://localhost:7083/api/q7/timemachine?days=1"
2025-02-07
C:\dhara>curl -X GET "https://localhost:7083/api/q7/timemachine?days=-1"
2025-02-07
C:\dhara>curl -X GET "https://localhost:7083/api/q7/timemachine?days=-2"
2025-02-07
C:\dhara>curl -X GET "https://localhost:7083/api/q7/timemachine?days=-1"
2025-02-06
C:\dhara>curl -X GET "https://localhost:7083/api/q7/timemachine?days=0"
2025-02-07
C:\dhara>curl -X GET "https://localhost:7083/api/q7/timemachine?days=5"
2025-02-12
C:\dhara>curl -X GET "https://localhost:7083/api/q7/timemachine?days=7"
2025-02-14
C:\dhara>curl -X GET "https://localhost:7083/api/q7/timemachine?days=fgh"
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.,"status":
400,"errors":{"days":["The value 'fgh' is not valid."]},"traceId":"00-55aa01645bc95b2848657e798ec12317-370f21e4bec9bc91-
00"}
C:\dhara>curl -X GET "https://localhost:7083/api/q7/timemachine?days="
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.,"status":
400,"errors":{"days":["The value '' is invalid."]},"traceId":"00-fa886eda6178194db1d51e3538e906e0-db6a7100e7f06286-00"}
C:\dhara>curl -X GET "https://localhost:7083/api/q7/timemachine?days=2"
2025-02-09
C:\dhara>
```

QUESTION 8

```
C:\Windows\System32\cmd.e  x  +  v

Microsoft Windows [Version 10.0.26100.3037]
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C:\dhara>curl -X "POST" "https://localhost:7083/api/q8/Squashfellows" -d "Small=1&Large=1"
1 Small @ $25.50 = $25.50;1 Large @ $40.50 = $40.50;SubTotal = $66.00;Tax = $8.58 HST;Total = $74.58
C:\dhara>curl -X "POST" "https://localhost:7083/api/q8/Squashfellows" -d "Small=1&Large=abc"
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.,"status":
400,"errors":{"Large":["The value 'abc' is not valid."]},"traceId":"00-547b723bbd9d8594e61838155b9ea70-b8bab08f1ed1119f
-00"}
C:\dhara>curl -X "POST" "https://localhost:7083/api/q8/Squashfellows" -d "Small=22&Large=6"
22 Small @ $25.50 = $561.00;6 Large @ $40.50 = $243.00;SubTotal = $804.00;Tax = $104.52 HST;Total = $908.52
C:\dhara>curl -X "GET" "https://localhost:7083/api/q8/Squashfellows" -d "Small=22&Large=6""

C:\dhara>curl -X "GET" "https://localhost:7083/api/q8/Squashfellows" -d "Small=22&Large=6"

C:\dhara>curl -X "POST" "https://localhost:7083/api/q8/Squashfellows" -d "Small=22&Large="
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.,"status":
400,"errors":{"Large":["The value '' is invalid."]},"traceId":"00-a74da8aedabefca7ca28fa2a985e1c69-58dd354d252812a2-00"}
C:\dhara>
```