MSE Assignment – 3

**Questions:-**

1. **Explore DVM instructions and give an example.**

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| **No.** | **Name** | **Syntax** | **Description** | **Example** |
| 1 | throw | throw vAA | A: exception bearing register(8 bits). | Unconditionally jumped to indicated instruction. |
| 2 | return | return v | Return with v return value | return v0 Returns with return value in v0. |
| 3 | const | const v, lit32 | Puts the integer constant into v | const v0,  #123  Moves literal  123 into v0. |
| 4 | nop | nop | Waste Cycles | nop |

1. **Differentiate between cloud and mobile computing.**

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| **Difference** | **Cloud computing** | **Mobile Computing** |
| Storage | Storage on the cloud (requires to access). | Storage on mobile devices. |
| Computing Power | Very high with usage of servers. Can be customized based on requirements. | Limited comput-ational power. |
| Example | Amazon Web services. | Google’s Android Operating System. |
| Power | These are wired.(generally)  . | These are wireless. (generally) |
| Advant-age | Data ownership.  . | Self service provisioning. |

3. **Give an example of an application simulating an environment of context aware computing and justify**.

As an example, let’s look at the interaction between a user’s sensor-enabled headset and his smartphone.  Our scenario begins with a person having lunch at their favourite restaurant. It is noon and the restaurant is particularly popular and noisy. When a call comes in for the user, the headset knows the location and the degree of ambient sound in the room and will automatically adjust the noise reduction algorithm to enhance the caller’s experience and automatically increase the headset volume for the user. Context-aware applications will also be able to predict or infer a user’s intentions by detecting or interpreting the environment. Because a smartphone knows that a user is having a conversation, it could withhold incoming calls, for instance.



