# COMP 101 ASSIGNMENT ONE

1. The managing Director of Transco Sacco wants to assemble his own personal computer
2. Outline the major components of system unit he needs to acquire

* hardware
* Software
* Data
* User

1. Advice him on the basic input and output devices he need to buy

* He should buy input devices like keyboard that will help to provide data and commands to a computer
* He should buy output devices like monitor which will show text, images and video output

1. Identify the type of card and slot where he need to plug it

* Peripheral component interconnect Express
* Thunderbolt ¾ port

1. Later he bought a digital camera. Advice him on which port he need to connect it to

* USB port since most digital camera come with a USB cable that allows him to connect the camera to USB port on his computer

1. Explain two major types of software he need to install in the computer .Give two example

* Operating system; It is a software program that manages the hardware and software resource of a computer example Windows , Android
* Application software; These are programs designed for specific tasks or applications example Microsoft office, spread sheet

1. Perform the following binary calculations
2. 00110+0101=1011 0110

+ 0101

|  |
| --- |
| 1011 |

1. 1111-1010=101 1111

-1010

|  |
| --- |
| 101 |

1. 0101\*1101= 0101

\*1101

|  |
| --- |
| 0101  0000  +0101 |
| 1001101   1. 1010101 / 0101   10101  0101| 1010101  -10101   |  | | --- | | 010 | |

1. Compare and contrast Celeron.Pentium,core2duo,duocore, corei3.corei5. corei7

* Celeron ; used for light task like web browsing and office work
* Pentium; it is better than Celeron and is suitable for basic tasks and light multitasking
* Core 2duo ;capable for general use and is better than Pentium, Celeron
* Dual-core; it’s a generic term for processors with two cores and it can vary in performance

1. Perform the following hexadecimal subtraction
2. FFAA 100 is equivalent to 64

+100

|  |
| --- |
| 100E |

1. 0123

+A5EE

|  |
| --- |
| 00123 |