**Computer Science**

Mini-project: Mobile phone shop



**Scenario**

A phone shop needs a computer program to help them calculate the cost of phone packages they are selling. Below is a table showing the packages the shop offers.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **/var/folders/03/tq0zp9755jd7b502sy0syxlh0000gn/T/com.microsoft.Word/Content.MSO/67F3C931.tmp**  **McBasic Package** | **/var/folders/03/tq0zp9755jd7b502sy0syxlh0000gn/T/com.microsoft.Word/Content.MSO/FC0AC63C.tmp**  **Average Joe Package** | Image result for golden bling phone  **Rich Kid Pro Package** |
| **Phone cost:** | $50 | $150 | $800 |
| **Included storage** | 2 GB | 8 GB | 32 GB |
| **Storage options** | None | Additional 64 GB (+$200)  Additional 128 GB (+$350) | |
| **Extra diamonds** | N/A | N/A | $200 |
| **Cloud data backup** |  | 1 year ($20)  2 years ($35) | |
| **Protective case** | Rubber case: $20  Carbon Fibre case: $100 | | |
| **Extra fast battery charger** | $100 | | |

You should ask the customer for their choice of package. They should then be asked for their selection of options, which vary according to the package selected. If the user wants cloud data backup, they should be asked for their email address.

At the end, your program should display the total cost the user needs to pay.

**Extension tasks:**

After you have completed and tested the tasks above, try adding the following functionality:

1. The shop allows the trade in of old phones. Customers receive a $40 discount when they do this. Add this as an option.
2. The shop wants to offer insurance packages for their phones. These cost $1 per month, $5 per month, or $20 per month, depending on the phone package. Add this option to the program and make it display a monthly cost in addition to the purchase cost.
3. The shop also offers data packages, priced as below. Add this as an option and include the price in the monthly cost:

* Pay as you go ($0)
* 1 GB ($10)
* 2 GB ($15)
* 5 GB ($40)
* 20 GB ($150)