

DailyFlash

=====

Program 1: Write a Program that computes Cartesian space value of a point P(x, y, z) if user provides that radius, angle theta (θ) & angle phi (φ) of that point in Polar coordinates space.

{Note: Considered 3D polar space then x, y, & z values for Cartesian space computed as, $x = r * \sin(\theta) * \cos(\varphi)$, $y = r * \sin(\theta) * \sin(\varphi)$ & $z = r * \cos(\theta)$ }

Input: $\theta = 30$, $\varphi = 45$ & $r = 3$

Output: $X = 0.707$, $y = 0.707$ & $Z = 0.866$

Program 2: Write a Program that prints octal value of Each Digit from entered Number.

Input: 82

Output:

Binary of 8: 10

Binary of 2: 2

Program 3: Write a Program that takes a number as input from user and prints it into words.

Input: 1234

Output: One Two Three Four

Program 4: Write a Program to Print following Pattern.

```
C   O   R   E
    O   R   E
      R   E
        E
```

Program 5: Write a Program to check whether a number can be express as sum of two prime numbers.

Input: 20

Output: 20 = 7 + 13