

S2 Supplementary Exercise – Programming Answer

Question 1

Output 1
Enter n = 1
3,

Output 2
Enter n = 30
3, 9, 27, 81,

Question 2

Output 1
Enter i = 4
10

Output 2
Enter i = 15
120

Question 3

```
int a, b, x;

cout << "Enter a = ";
cin >> a;

cout << "Enter b = ";
cin >> b;

if(a%2==0)

    x = a;

else

    x = a+1;

while ( x<=b ) {

    cout << x << ", ";

    x = x+2;

}
```

Question 4

```
int x, y, ans;  
  
cout << "Enter x = ";  
  
cin >> x;  
  
ans = 1;  
  
while ( x>0 ) {  
  
    ans = ans*2;  
  
    x = x-1;  
  
}  
  
cout << ans << endl;
```

Question 5

```
int x, y, n;  
  
cout << "Enter n = ";  
  
cin >> n;  
  
x = 0;  
  
while ( x<=n ) {  
  
    y = 0;  
  
    while( y<=n-x ) {  
  
        cout << y << "\t";  
  
        y = y + 1;  
  
    }  
  
    x = x + 1;  
  
    cout << endl;  
}
```