

Solutions:

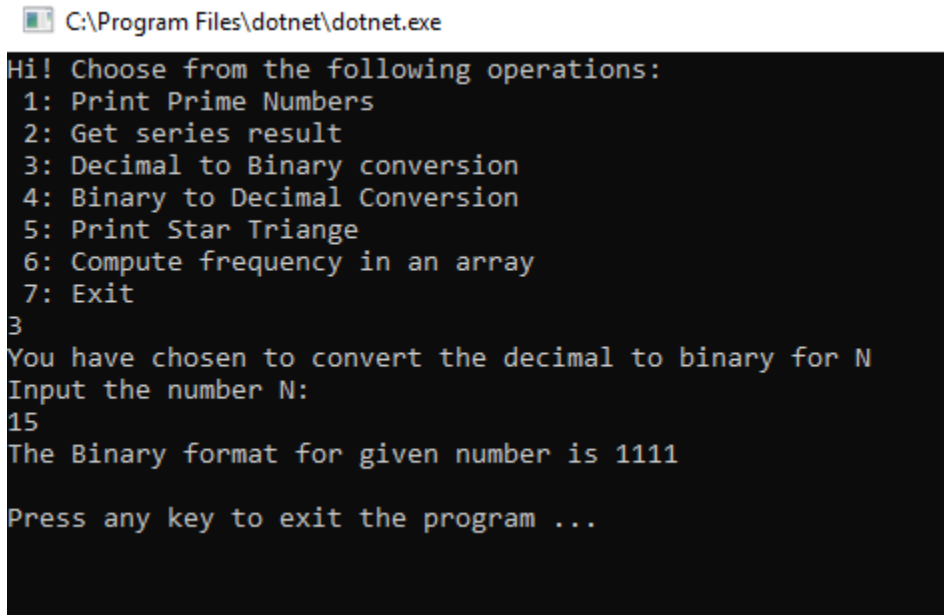
1. To Print Prime Numbers

```
C:\Program Files\dotnet\dotnet.exe
Hi! Choose from the following operations:
1: Print Prime Numbers
2: Get series result
3: Decimal to Binary conversion
4: Binary to Decimal Conversion
5: Print Star Triange
6: Compute frequency in an array
7: Exit
1
You have chosen to print prime numbers between 2 integers
Please input the value of X:
5
Please input the value of Y:
15
Find all prime numbers between 2 integers X and Y:
The prime numbers between 5 and 15 are :
5 7 11 13
Press any key to exit the program ...
```

2. To Get Series Result:

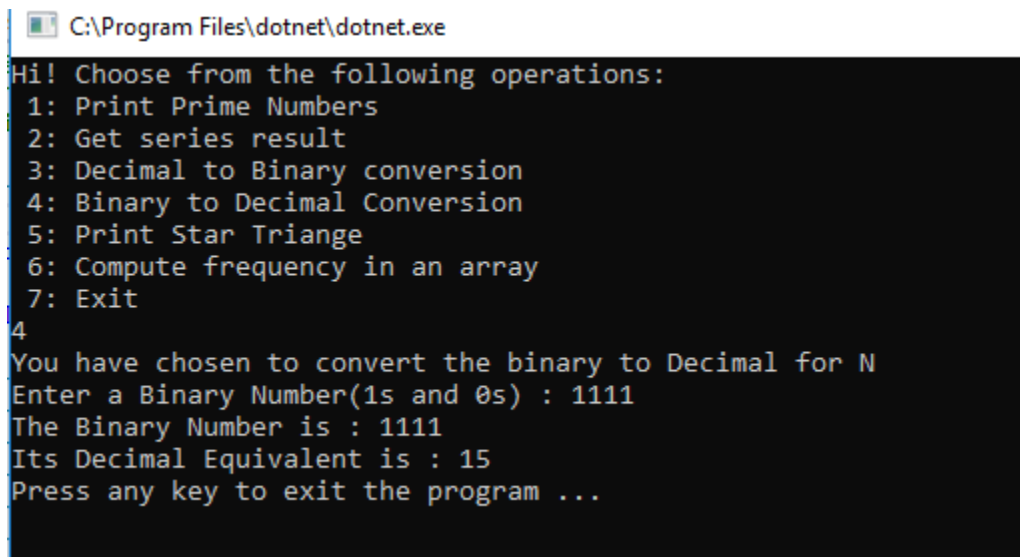
```
C:\Program Files\dotnet\dotnet.exe
Hi! Choose from the following operations:
1: Print Prime Numbers
2: Get series result
3: Decimal to Binary conversion
4: Binary to Decimal Conversion
5: Print Star Triange
6: Compute frequency in an array
7: Exit
2
You have chosen to get series result for N
Input the number N:
5
The result of the series is 0.617
Press any key to exit the program ...
```

3. To Convert Decimal to Binary numbers:



```
C:\Program Files\dotnet\dotnet.exe
Hi! Choose from the following operations:
1: Print Prime Numbers
2: Get series result
3: Decimal to Binary conversion
4: Binary to Decimal Conversion
5: Print Star Triange
6: Compute frequency in an array
7: Exit
3
You have chosen to convert the decimal to binary for N
Input the number N:
15
The Binary format for given number is 1111
Press any key to exit the program ...
```

4. To Convert Binary to Decimal numbers



```
C:\Program Files\dotnet\dotnet.exe
Hi! Choose from the following operations:
1: Print Prime Numbers
2: Get series result
3: Decimal to Binary conversion
4: Binary to Decimal Conversion
5: Print Star Triange
6: Compute frequency in an array
7: Exit
4
You have chosen to convert the binary to Decimal for N
Enter a Binary Number(1s and 0s) : 1111
The Binary Number is : 1111
Its Decimal Equivalent is : 15
Press any key to exit the program ...
```

5. To Print Triangle:

```
C:\Program Files\dotnet\dotnet.exe
Hi! Choose from the following operations:
1: Print Prime Numbers
2: Get series result
3: Decimal to Binary conversion
4: Binary to Decimal Conversion
5: Print Star Triange
6: Compute frequency in an array
7: Exit
5
You have chosen to print triangle using * for N
Please input the number of rows desired:
5
  *
 ***
*****
*****
*****

Press any key to exit the program ...
```

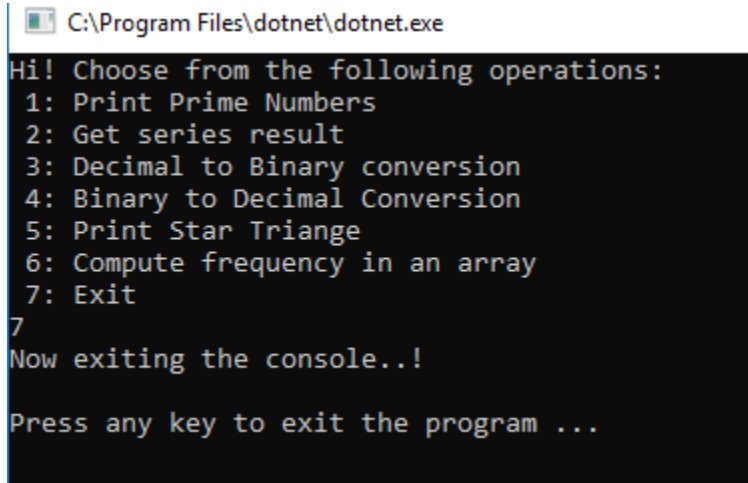
6. To Compute frequency of the elements in the Array:

```
C:\Program Files\dotnet\dotnet.exe
1: Print Prime Numbers
2: Get series result
3: Decimal to Binary conversion
4: Binary to Decimal Conversion
5: Print Star Triange
6: Compute frequency in an array
7: Exit
6
You have chosen to compute the frequency of elements in the array
Input the number of elements to be stored in the array :8
Input 8 elements in the array :
element - 1 : 1
element - 2 : 2
element - 3 : 3
element - 4 : 2
element - 5 : 2
element - 6 : 1
element - 7 : 3
element - 8 : 2

The frequency of all elements of the array :
Number Frequency
  1      2
Number Frequency
  2      4
Number Frequency
  3      2

Press any key to exit the program ...
```

7. To Exit the program:



```
C:\Program Files\dotnet\dotnet.exe
Hi! Choose from the following operations:
1: Print Prime Numbers
2: Get series result
3: Decimal to Binary conversion
4: Binary to Decimal Conversion
5: Print Star Triange
6: Compute frequency in an array
7: Exit
7
Now exiting the console..!
Press any key to exit the program ...
```