Logic Building Assignment : 5

Create separate visual Studio project for each problem statement separately.

1. Accept range from user and return addition of even numbers in between that range.

Input : 10 17
Output : 50 (10 + 12 + 14 + 16)

Program Layout :

```
#include<stdio.h>

int RangeEvenSum(int iStart, int iEnd)
{
	// Logic
}

int main()
{
	int iValue1 = 0,iValue2 = 0;
	int iRet = 0;

	printf("Enter range");
	scanf("%d%d",&iValue1,&iValue2);

	iRet = RangeEvenSum(iValue1, iValue2);

	printf("Summation of even numbers is %d ",iRet);

	return 0;
}
```

2. Accept range from user and return addition of prime numbers in between that range.

Input : 10 20
Output : 60 (11 + 13 + 17 + 19)

Program Layout :

```
#include<stdio.h>

int RangePrimeSum(int iStart, int iEnd)
{
	// Logic
}

int main()
{
	int iValue1 = 0,iValue2 = 0;
	int iRet = 0;

	printf("Enter range");
	scanf("%d%d",&iValue1,&iValue2);

	iRet = RangePrimeSum(iValue1, iValue2);

	printf("Summation of prime numbers is %d ",iRet);

	return 0;
}
```

3. Accept range from user and display perfect numbers from that range.

Input : 5 30
Output : 6 28

Program Layout :

```
#include<stdio.h>

void RangePerfect(int iStart, int iEnd)
{
	// Logic
}

int main()
{
	int iValue1 = 0,iValue2 = 0;

	printf("Enter range");
	scanf("%d%d",&iValue1,&iValue2);

	RangePerfect(iValue1, iValue2);

	return 0;
}
```

4. Accept range from user and return addition of perfect numbers from that range.

Input : 5 30
Output : 34 (6 + 28)

Program Layout :

```
#include<stdio.h>

int RangePerfectSum(int iStart, int iEnd)
{
	// Logic
}

int main()
{
	int iValue1 = 0,iValue2 = 0;
	int iRet = 0;

	printf("Enter range");
	scanf("%d%d",&iValue1,&iValue2);

	iRet = RangePerfectSum(iValue1, iValue2);

	printf("Addition of perfect numbers is %d",iRet);

	return 0;
}
```

5. Accept range from user and display prime & perfect numbers from that range.

Input : 5 30
Output : 5 is prime number
6 is perfect number
7 is prime number
11 is prime number
13 is prime number
17 is prime number
19 is prime number
23 is prime number
28 is perfect number
29 is prime number

Program Layout :

```
#include<stdio.h>

int RangePerfectPrime(int iStart, int iEnd)
{
	// Logic
}

int main()
{
	int iValue1 = 0,iValue2 = 0;
	int iRet = 0;

	printf("Enter range");
	scanf("%d%d",&iValue1,&iValue2);

	RangePerfectPrime(iValue1, iValue2);

	return 0;
}
```