Q① Write a Program to calculate sum of first N natural numbers.

```c
#include <stdio.h>
int main()
{ int i=1, h, Sum = 0;
Printf("Enter number");
Scanf("%d", &h);
while (i<=h)
{ Sum= Sum+ i;
  i++;
}
 Printf("Sum of %d natural number : %d", h, Sum);
 return 0;
}
```

Q② Write a Program to Calculate sum of first N even natural numbers.

```c
#include <stdio.h>
int main()
{ int i=1, h, Sum=0;
Printf("Enter number");
Scanf("%d", &h);
while (i<=h)
{Sum=Sum+0;
i++ {Sum= Sum+ 2*i);
   i++;
}
Printf("Sum of %d even natural number : %d", h, Sum);
 return 0;
}
```

Q③ Write a Program to Calculate sum of first N odd natural numbers.

```c
#include <stdio.h>
intmain()
{int i=1; h, Sum= 0;
Printf("Enter number");
Scanf("%d", &h);
while ( i<=h)
{ Sum= Sum+(2*i-1);
   i++;
} Printf("Sum of %d odd natural number : %d", h, Sum);
 return 0;
}
```

Q4) Write a Program to Calculate sum of square of first N natural number

```c
#include <stdio.h>
int main()
{ int i=1, n, sum=0;
  printf("Enter number");
  scanf("%d", &n);
  while(i<=n)
  { sum = sum + (i * i);
    i++;
  }
  printf("Sum of square of first %d number : %d", n, sum);
  return 0;
}
```

Q5) Write a Program to Calculate sum of cubes of first N natural number.

```c
#include <stdio.h>
int main()
{ int i=1, n, sum=0;
  printf("Enter number");
  scanf("%d", &n);
  while(i<=n)
  { sum = sum+(i*i*i);
    i++;
  }
  printf("Sum of cubes of first %d number : %d", n, sum);
  return 0;
}
```

Q6) Write a Program to Calculate factorial of a number.

```c
#include <stdio.h>
int main()
{ int i=1, fact=1, n;
  printf("Enter number");
  scanf("%d", &n);
  while(i<=n)
  { fact = fact*i;
    i++;
  }
  printf("factorial of %d! is %d", n, fact);
  return 0;
}
```

(07) Write a Program to count digit in a given number

```c
#include<stdio.h>
int main()
{ int n, Count=0;
  printf("Enter number");
  scanf("%d", &n);
  while(n!=0)
  { n=n/10;
    Count++;
  }
  printf("No. of digit in an integer is: %d", Count);
  return 0;
}
```

(08) Write a Program to check wheather a given number is a Prime number or not.

```c
#include<stdio.h>
int main()
{ int i, x;
  printf("Enter number");
  scanf("%d", &x);

  for(i=2; i<=x-1, i++)
  { if(x%i==0)
      break;
  }
  if(i=x)
  printf("Prime number");
  else
  printf("Not a Prime number");

  return 0;
}
```

P.T.O