Multimise
continuous growth

# Pattern programming – Decrementing loops !!

```
// Increasing triangle stars
#include <stdio.h>
int main() {

   int n = 0;
   printf("\n Enter the number of rows:");
   scanf("%d", &n);
   for(int i = n; i >= 1; i--)
   {
      for(int j = n; j >= i; j--)
      {
         printf("* ");
      }
      printf("\n");
   }
   return 0;
}
```

```
//Decreasing triangle stars
#include <stdio.h>
int main() {

   int n = 0;
   printf("\n Enter the number of rows:");
   scanf("%d", &n);
   for(int i = n; i >= 1; i--)
   {
      for(int j = i; j >= 1; j--)
      {
         printf("* ");
      }
      printf("\n");
   }
   return 0;
}
```

```
// Mirror image – Decrementing triangle stars
#include <stdio.h>
int main() {

  int n = 0;
  printf("\n Enter the number of rows:");
  scanf("%d", &n);
  for(int i = n; i >= 1; i--)
  {
    for(int k = n; k >= i; k--)
    {
      printf("  ");
    }
    for(int j = i; j >= 1; j--)
    {
      printf("* ");
    }
    printf("\n");
  }
  return 0;
}
```

```
//Mirror image – Incrementing triangle stars
#include <stdio.h>
int main() {
  int n = 0;
  printf("\n Enter the number of rows:");
  scanf("%d", &n);
  for(int i = n; i >= 1; i--)
  {
    for(int k = i; k >= 1; k--)
    {
      printf("  ");
    }
    for(int j = n; j >= i; j--)
    {
      printf("* ");
    }
    printf("\n");
  }
  return 0;
}
```

```
// Hill
#include <stdio.h>
int main() {
   int n = 0;
   printf("\n Enter the number of rows:");
   scanf("%d", &n);
   for(int i = n; i >= 1; i--)
   {
      for(int k = i; k >= 1; k--)
      {
         printf("  ");
      }
      for(int j = n; j >= i; j--)
      {
         printf("* ");
      }
      for(int m = n; m > i  ;m--)
      {
         printf("* ");
      }
      printf("\n");
   }
   return 0;
}
```

```
// Inverted Hill
#include <stdio.h>
int main() {
   int n = 0;
   printf("\n Enter the number of rows:");
   scanf("%d", &n);
   for(int i = n; i >= 1; i--)
   {
      for(int k = n; k >= i; k--)
      {
         printf("  ");
      }
      for(int j = i; j >= 1; j--)
      {
         printf("* ");
      }
      for(int m = i; m > 1 ;m--)
      {
         printf("* ");
      }
      printf("\n");
   }
   return 0;
}
```

```
// Diamond
#include <stdio.h>
int main() {
   int n = 0;
   printf("\n Enter the number of rows:");
   scanf("%d", &n);
   for(int p = n; p >= 1; p--)
   {
      for(int q = p; q >= 1; q--)
      {
         printf("  ");
      }
      for(int r = n; r >= p; r--)
      {
         printf("* ");
      }
      for(int s = n; s > p ;s--)
      {
         printf("* ");
      }
      printf("\n");
   }
   for(int i = n; i >= 1; i--)
   {
      for(int k = n; k >= i; k--)
      {
         printf("  ");
      }
      for(int j = i; j >= 1; j--)
      {
         printf("* ");
      }
      for(int m = i; m > 1 ;m--)
      {
         printf("* ");
      }
      printf("\n");
   }
   return 0;
}
```

```
// Double hill
#include <stdio.h>
int main() {
   int n = 0;
   printf("\n Enter the number of rows:");
   scanf("%d", &n);
   for(int p = n; p >= 1; p--)
```