ASSIGNMENT NO. 8

Question no. 1

```c
#include<stdio.h>
int main()  {
int i,j;
 for(i=1;i<=5;i++) {
  for(j=1;j<=5;j++)  {
   if(j<=i)
     printf("*");
   else
   printf(" ");
   }
   printf("\n");
 } }
```

Question no. 2

```c
#include<stdio.h>
int main()  {
int i,j;
 for(i=1;i<=5;i++)  {
  for(j=1;j<=5;j++)  {
   if(j>=6-i)
     printf("*");
   else
   printf(" ");
   }
   printf("\n");
 } }
```

Question no. 3

```c
#include<stdio.h>
```

```c
int main()  {
int i,j;
 for(i=1;i<=5;i++)  {
  for(j=1;j<=5;j++)  {
   if(j<=6-i)
     printf("*");
   else
   printf(" ");
   }
   printf("\n");
 }  }
```

Question no. 4

```c
#include<stdio.h>
int main() {
int i,j;
 for(i=1;i<=5;i++) {
  for(j=1;j<=5;j++) {
   if(j>=i)
     printf("*");
   else
   printf(" ");
   }
   printf("\n");
 } }
```

Question no. 5

```c
#include<stdio.h>
int main()  {
int i,j;
 for(i=1;i<=5;i++)  {
```

```c
  for(j=1;j<=9;j++) {

   if((j>=6-i) && (j<=4+i))

     printf("*");

   else

   printf(" ");

   }

   printf("\n");

 } }
```

Question no. 6

```c
#include<stdio.h>

int main() {

int i,j;

 for(i=1;i<=5;i++) {

  for(j=1;j<=9;j++) {

   if((j>=i) && (j<=10-i))

     printf("*");

   else

   printf(" ");

   }

   printf("\n");

 } }
```

Question no. 7

```c
#include<stdio.h>

int main() {

int i,j;

 for(i=1;i<=5;i++) {

  for(j=1;j<=9;j++) {

    if(j<=6-i  || j>=4+i)

     printf("*");
```

```c
        else
            printf(" ");
    }
      printf("\n");
  }
}
```

Question no. 8

```c
#include<stdio.h>
int main() {
int i,j,k;
 for(i=1;i<=4;i++) {
      k=1;
  for(j=1;j<=9;j++) {
      if(j>=5-i  && j<=3+i)
      {
      printf("%d",k);
      j<4?k++:k--;
      }
      else
        printf(" ");
  }
    printf("\n");
 }
}
```

Question no. 9

```c
#include<stdio.h>
int main() {
int i,j,k;
 for(i=1;i<=4;i++) {
```

```c
    k=1;
  for(j=1;j<=9;j++) {
    if(j>=i  && j<=8-i)
    {
    printf("%d",k);
    j<4?k++:k--;
    }
    else
       printf(" ");
  }
   printf("\n");
 }
}
```

Question no. 10

```c
#include<stdio.h>
int main() {
int i,j,k;
 for(i=1;i<=4;i++) {
     k=1;
  for(j=1;j<=7;j++) {
    if(j<=5-i  || j>=3+i) {
    printf("%d",k);
    j<4?k++:k--;
    }
    else {
       printf(" ");
       if(j==4)
        k--;
    }
```

```
  }
    printf("\n");
 }
}
```

Question no. 11

```c
#include<stdio.h>
int main() {
int i,j;
char k;
 for(i=1;i<=5;i++) {
     k='A';
  for(j=1;j<=9;j++) {
     if(j>=6-i  && j<=4+i)
     {
     printf("%c",k);
     j<5?k++:k--;
     }
     else
        printf(" ");
  }
    printf("\n");
 }
}
```

Question no. 12

```c
#include<stdio.h>
int main() {
int i,j;
char k;
 for(i=1;i<=4;i++) {
```

```c
        k='A';
    for(j=1;j<=9;j++)  {
        if(j>=i  && j<=8-i)
        {
        printf("%c",k);
        j<4?k++:k--;
        }
        else
            printf(" ");
    }
      printf("\n");
    }
}
```

Question no. 13

```c
#include<stdio.h>
int main()  {
int i,j;
 for(i=1;i<=7;i++)  {
        char k='A';
    for(j=1;j<=13;j++)  {
        if(j<=8-i  || j>=6+i)
        {
        printf("%c",k);
        j<7?k++:k--;
        }
        else
        {
            printf(" ");
            if(j==7)
```

```c
            k--;
        }
    }
    printf("\n");
  }
}
```

Question no. 14

```c
#include<stdio.h>
int main() {
int i,j;
 for(i=1;i<=5;i++) {
  for(j=1;j<=5;j++) {
     if(j==1 || i==5 || j==i )
     printf("*");
     else
        printf(" ");
  }
    printf("\n");
 }
}
```

Question no. 15

```c
#include<stdio.h>
int main() {
int i,j;
 for(i=1;i<=5;i++) {
  for(j=1;j<=5;j++) {
     if(j==5 ||i==5 || j==6-i )
     printf("*");
     else
```

```c
            printf(" ");
      }
     printf("\n");
  }
}
```

Question no. 16

```c
#include<stdio.h>

int main() {

int i,j;

 for(i=1;i<=5;i++) {

  for(j=1;j<=9;j++) {

      if(j==6-i ||i==5 || j==4+i )

      printf("*");

      else

        printf(" ");

  }

    printf("\n");

 }

}
```

Question no. 17

```c
#include<stdio.h>

int main() {

int i,j;

 for(i=1;i<=5;i++) {

  for(j=1;j<=9;j++) {

      if(j==i || i==1 || j==10-i )

      printf("*");

      else

        printf(" ");
```

```
  }
    printf("\n");
  }
}
```

Question no. 18

```c
#include<stdio.h>

int main() {
int i,j,k=0;
 for(i=1;i<=9;i++) {
    i<=4?k++:k--;
  for(j=1;j<=9;j++) {
     if((j>=6-k ) && (j<=4+k))
     printf("*");
   else
    printf(" ");
  }
  printf("\n");
  }
}
```

Question no. 19

```c
#include<stdio.h>

int main() {
int i,j;
 for(i=1;i<=3;i++) {
  for(j=1;j<=19;j++) {
     if((j>=4-i && j<=6+i) || (j>=14-i && j<= 16+i) )
     printf("*");
     else
        printf(" ");
```

```c
    }
     printf("\n");
    }
     for(i=1;i<=10;i++)  {
     for(j=1;j<=19;j++)  {
         if((i==1) && (j==7))
         printf("MySirG");
      if(i==1 && j>=7 && j<=12)
       continue;
         if(j>=i && j<=20-i)
         printf("*");
       else
        printf(" ");
       }
      printf("\n");
       }
   }
```