

## Assignment -12

```
① #include <stdio.h>
   #include <conio.h>

   void printN (int x)
   int main ()
   {
       int n;
       printf ("Enter a number");
       scanf ("%d", &n);
       printN (n);
       printf ("\n");
       return 0;
   }

   void printN (int x)
   {
       if (x > 0)
       {
           printN (x-1);
           printf ("%d", x);
       }
   }
```

```

② #include <stdio.h>
void printn(int x);
int main()
{
    int n;
    printf("Enter a number");
    scanf("%d", &n);
    printn(n);
    printf("\n");
    return 0;
}

void printn(int x)
{
    if (x > 0)
    {
        printf("%d ", x);
        printn(x-1);
    }
}

```

```

③ #include <stdio.h>
void printn(int x);
int main()
{
    int n;
    printf("Enter a number");
    scanf("%d", &n);
    printn(n);
    printf("\n");
    return 0;
}

```

```
void printn(int x)
```

```
{  
    if (x > 0)
```

```
    {  
        printn(x-1);
```

```
        if (x % 2 != 0)
```

```
            printf("odd", x);
```

```
    }  
}
```

```
④ #include <stdio.h>
```

```
void odd(int x);
```

```
int main()
```

```
{  
    int n;
```

```
    printf("Enter a number");
```

```
    scanf("%d", &n);
```

```
    odd(n);
```

```
    printf("n");
```

```
    return 0;
```

```
}
```

```
void odd(int x)
```

```
{  
    if (x > 0)
```

```
    {  
        if (x % 2 != 0)
```

```
            printf("odd", x);
```

```
            printf odd(x-1);
```

```
    }
```

```
}
```



```
⑤ #include <stdio.h>
void even(int x);
int main()
```

```
{
    int n;
    printf("enter a number");
    scanf("%d", &n);
    even(n);
    printf("\n");
    return 0;
```

```
void even(int x),
```

```
{
    if (x < 0)
    {
        even(x+1)
    }
    if (x % 2 == 0)
        printf("%d", x);
}
```

```
⑥ #include <stdio.h>
void even(int x);
int main()
```

```
{
    int n;
    printf("enter a number");
    scanf("%d", &n);
    even(n);
    printf("\n");
    return 0;
```

```
void even (int x)
```

```
{ if (x > 0)
```

```
{ if (x % 2 == 0)
```

```
printf("odd", x);
```

```
even(x-1);
```

```
}
```

⑦

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

```
void square (int x);
```

```
int main()
```

```
{
```

```
int n;
```

```
printf("Enter a number");
```

```
scanf("%d", &n);
```

```
square(n);
```

```
printf("%d", n);
```

```
return 0;
```

```
void square(int x)
```

```
{
```

```
if (x > 0)
```

```
{
```

```
square(x-1);
```

```
printf("%d", x*x);
```

```
}
```

```
}
```

```
⑧ #include <stdio.h>
void Binary(int n)
int main()
```

```
{
```

```
    int n;
```

```
    printf("Enter a number");
```

```
    scanf("%d", &n);
```

```
    Binary(n);
```

```
    return 0;
```

```
}
```

```
void Binary(int n)
```

```
{
```

```
    int
```

```
    if (n == 1)
```

```
        printf("1");
```

```
    else
```

```
    {
```

```
        Binary(n/2);
```

```
        printf("%d", n%2);
```

```
    }
```

```
}
```



```
⑨ #include <stdio.h>
void oetal (int m);
int main()
```

```
{
    int n;
    printf("Enter a number");
    scanf("%d", &n);
    oetal(n);
    return 0;
}
```

```
void oetal (int m)
```

```
{
    if (m < 0)
        printf("%d", m);
    else
    {
        oetal(m/10);
        printf("%d", m%10);
    }
}
```

⑩ #include <stdio.h>

int reverse (int);

int main()

{

int n, res;

printf ("Enter a number");

scanf ("%d", &n);

res = reverse (n);

printf ("reverse of %d is %d", n, res);

return 0;

}

int sum=0;

int reverse (int x)

{

if (x > 0)

{

r = x % 10;

sum = sum \* 10 + r;

reverse (x / 10);

}

else

return sum;

}