

1) Reversing a 32 bit signed integers

```
#include<stdio.h>

int main()
{
    int n,r,rev=0;
    printf("enter a number:");
    scanf("%d",&n);
    while(n!=0)
    {
        r=n%10;
        rev=rev*10+r;
        n=n/10;
    }
    printf("reversing a 32 bit number is:%d\n",rev);
    return 0;
}
```

OUT PUT:

```
/tmp/qZ0BrPcprC.o
enter a number:021
reversing a 32 bit number is:12

=== Code Execution Successful ===
```

2) Check for a valid String

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

```
int main()
{
    char str[100];
    int valid=1;
    printf("enter a string:");
    scanf("%s",&str);
    for(int i=0;str[i]!='\0';i++)
    {
        if(!(str[i]>='a' && str[i]<='z') || (str[i]>='A'&&str[i]<='Z'))
        {
            valid=0;
            break;
        }
    }
    if(valid)
    {
        printf("valid string");
    }
    else
    {
        printf("not valid string");
    }
    return 0;
}
```

OUT PUT:

```
/tmp/sfPWt11dm0.o
enter a string:ramana
valid string

=== Code Execution Successful ===
```

3) Merging two Arrays

```
#include<stdio.h>

int main()
{
    int a[5]={1,2,3,4,5};
    int b[5]={6,7,8,9,10};
    int c[10];
    for(int i=0;i<5;i++)
    {
        c[i]=a[i];
    }
    for(int i=0;i<5;i++)
    {
        c[i+5]=b[i];
    }
    printf("merged array:");
    for(int i=0;i<10;i++)
    {
        printf("%d ",c[i]);
    }
    return 0;
}
```

OUT PUT:

```
/tmp/14ZxMdU77c.o
merged array:1 2 3 4 5 6 7 8 9 10

=== Code Execution Successful ===|
```

4) Given an array finding duplication values

```
#include<stdio.h>

int main()
{
    int a[6]={1,2,1,3,2,4};
    printf("duplicates are:");
    for(int i=0;i<6;i++)
    {
        for(int j=i+1;j<6;j++)
        {
            if(a[i]==a[j])
            {
                printf("%d ",a[j]);
            }
        }
    }
    return 0;
}
```

OUT PUT:

```
/tmp/cS7FEcoY6e.o  
duplicates are:1 2
```

```
=== Code Execution Successful ===
```

6) Given array of reg nos need to search for particular reg no

```
#include <stdio.h>  
  
int main()  
{  
    int regno[5] = {101, 102, 103, 104, 105};  
    int n, i;  
    printf("Enter a number: ");  
    scanf("%d", &n);  
    for (i = 0; i < 5; i++)  
    {  
        if (regno[i] == n)  
        {  
            printf("Reg no %d is found\n", n);  
            return 0;  
        }  
        else  
        {  
            printf("Reg no %d is not found\n", n);  
            return 0;  
        }  
    }  
    return 0;  
}
```

```
}
```

OUT PUT:

```
/tmp/fJrrr8r65w.o
Enter a number: 101
Reg no 101 is found

=== Code Execution Successful ===
```

5) Merging of list

```
#include<stdio.h>

int main()
{
    int a[5]={1,2,3,4,5};
    int b[5]={6,7,8,9,10};
    int c[10];
    for(int i=0;i<5;i++)
    {
        c[i]=a[i];
    }
    for(int i=0;i<5;i++)
    {
        c[i+5]=b[i];
    }
}
```

```

printf("merged list:");
for(int i=0;i<10;i++)
{
    printf("%d ",c[i]);
}
return 0;
}

```

OUT PUT:

```

/tmp/BPwanaJnRp.o
merged list:1 2 3 4 5 6 7 8 9 10

=== Code Execution Successful ===

```

7) Identify location of element in given array

```

#include<stdio.h>

int main()
{
    int a[5]={10,20,30,40,50};
    int target=20;
    int index=-1;
    for(int i=0;i<5;i++)
    {
        if(a[i]==target)
        {
            index=i;
        }
    }
}

```

```

if(index!=-1)
{
    printf("element %d is found at index %d\n",target,index);
}
else
{
    printf("element %d is not found",target,index);
}
return 0;
}

```

OUT PUT:

```

/tmp/GaID0LyQyv.o
element 20 is found at index 1

=== Code Execution Successful ===

```

8) Given array print odd and even values

```

#include<stdio.h>

int main()
{
    int a[10]={1,2,3,4,5,6,7,8,9,10};
    printf("even numbers is:\n");
    for(int i=0;i<10;i++)
    {

```



```
        if(a[i]%2==0)
        {
            printf("%d \n",a[i]);
        }
    }
    printf("odd numbers is:\n");
    for(int i=0;i<10;i++)
    {
        if(a[i]%2!=0)
        {
            printf("%d \n",a[i]);
        }
    }
    return 0;
}
```

OUT PUT:

```
/tmp/Iat0MP4xer.o
```

```
even numbers is:
```

```
2
```

```
4
```

```
6
```

```
8
```

```
10
```

```
odd numbers is:
```

```
1
```

```
3
```

```
5
```

```
7
```

```
9
```

```
=== Code Execution Successful ===
```

9) Sum of Fibonacci Series

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

```
int main()
```

```
{
```

```
    int n,f1=0,f2=1,f3;
```

```
    int sum=1;
```

```
    printf("enter n value:\n");
```

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

```
    for(int i=2;i<n;i++)
```

```
    {
```

```

    f3=f1+f2;

    f1=f2;
    f2=f3;
    sum=sum+f3;
}
printf("sum of fibinocci is:%d\n",sum);

return 0;
}

```

OUT PUT:

```

/tmp/LjrNOvIWrrJ.o
enter n value:
10
sum of fibinocci is:88

=== Code Execution Successful ===

```

10) Finding factorial of a number

```

#include<stdio.h>

int main()
{
    int n,fact=1;
    printf("enter a number:");
    scanf("%d",&n);
    for(int i=1;i<=n;i++)
    {

```

```
        fact=fact*i;
    }
    printf("factorial is:%d",fact);
    return 0;
}
```

OUT PUT:

```
/tmp/JuC19YqMmG.o
enter a number:5
factorial is:120

=== Code Execution Successful ===
```