

## School-programming workshop.

### 1.Hello

```
#include<stdio.h>

int main()
{
    printf(" Hello World\n");
    printf("Baratara High School.");
    return 0;
}
```

### 2.Addition

```
#include<stdio.h>

int main()
{
    int a=5,b=7;
    int c;
    c=a+b;
    printf("%d\n",c);
    printf("sum %d + %d =%d\n",a,b,a+b);
    return 0;
}
```

### 3.AdditionInput

```
#include<stdio.h>

int main()
{
```

```
int a,b,c;
printf("input two integer number.\n");
scanf("%d%d",&a,&b);
c=a+b;
printf("%d\n",c);
printf("sum %d + %d =%d\n",a,b,a+b);
return 0;
}
```

#### 4.IfElse

```
#include<stdio.h>
int main()
{
    int a,b,c;
    printf("input two integer number.\n");
    scanf("%d%d",&a,&b);
    c=a+b;
    printf("%d\n",c);
    if(c>0)
    {
        printf("sum %d + %d =%d\n",a,b,a+b);
        printf("Positive Number.\n");
    }
    else
    {
        printf("sum %d + %d =%d\n",a,b,a+b);
    }
}
```

```
        printf("Negative Number.\n");
    }
    return 0;
}
```

#### 5.ForLoop

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

```
int main()
```

```
{
    int i;
    for(i=1;i<20;i++)
    {
        printf("%d ",i);
    }
    printf("\n");
    return 0;
}
```

#### 6.ForLoopOddEven

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

```
int main()
```

```
{
    int i;
    for(i=1;i<=20;i++)
    {
        if(i%2==0)
        {
```

```
        printf("this number is Even:%d\n",i);
    }
    else
    {
        printf("this Number is Odd:%d\n",i);
    }
}
return 0;
}
```

#### 7.WhileLoop

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

```
int main()
```

```
{
```

```
    int i=0;
```

```
    while(i<=20)
```

```
    {
```

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

```
        i++;
```

```
    }
```

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

```
    return 0;
```

```
}
```

#### 8.WhileLoopOddEvenHome

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

```
int main()
```

```
{
    int i=0;
    while(i<=20)
    {
        printf("%d ",i);
        i++;
    }
    printf("\n");
    return 0;
}
```

#### 9.DoWhileLoop

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

```
int main()
```

```
{
```

```
    int a,b,c,n;
```

```
    do
```

```
    {
```

```
        printf("input 1 to Do While Loop and press 0 to end the program.\n");
```

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

```
        switch(n)
```

```
        {
```

```
            case 1:
```

```
                printf("this is Do While Loop.\n\n");
```

```
                break;
```

```
    }  
}  
while(n!=0);  
return 0;  
}
```

## 10.Array

```
#include<stdio.h>  
int main()  
{  
    int arr[5]={10,2,3,40,5};  
    int i;  
    for(i=0;i<5;i++)  
    {  
        printf("%d ",arr[i]);  
    }  
    printf("\n");  
    return 0;  
}
```

## 11.ArraySum

```
#include<stdio.h>  
int main()  
{  
    int arr[5]={10,2,3,40,5};
```

```
int i,sum=0;
for(i=0;i<5;i++)
{
    printf("%d ",arr[i]);
    sum=sum+arr[i];
}
printf(" Sum Of Array:%d\n",sum);
printf("\n");
return 0;
}
```

## 12.ArrayOddEven

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

```
int main()
```

```
{
```

```
int arr[5]={10,2,3,40,5};
```

```
int i;
```

```
for(i=0;i<5;i++)
```

```
{
```

```
printf("%d ",arr[i]);
```

```
if(arr[i]%2==0)
```

```
{
```

```
printf("Even Number.\n");
```

```
}
```

```
else
```

```
{
```

```
        printf("Odd Number.\n");
    }
}
printf("\n");
```

```
    return 0;
}
```

### 13.SimpleCalculator.

```
#include<stdio.h>

int main()
{
    int a,b,c,n;
    do
    {
        printf("input your choice and press 0 to    end  the program.\n");
        printf("1.Addition \n2.Subtraction \n3.Multiplication .\n4.Division.\n");
        scanf("%d",&n);
        switch(n)
        {
            case 1:
                printf("input 2 integer number.\n");
                scanf("%d %d",&a,&b);
                c=a+b;
                printf("%d+%d=%d\n",a,b,c);
                break;
```



case 2:

```
printf("input 2 integer number.\n");
```

```
scanf("%d %d",&a,&b);
```

```
c=a-b;
```

```
printf("%d-%d=%d\n",a,b,c);
```

```
break;
```

case 3:

```
printf("input 2 integer number.\n");
```

```
scanf("%d %d",&a,&b);
```

```
c=a*b;
```

```
printf("%d*%d=%d\n",a,b,c);
```

```
break;
```

case 4:

```
printf("input 2 integer number.\n");
```

```
scanf("%d %d",&a,&b);
```

```
c=a/b;
```

```
printf("%d/%d=%d\n",a,b,c);
```

```
break;
```

default:

```
printf("please input correct value Or Check Again.\n");
```

```
}
```

```
}
```

```
while(n!=0);
```

```
    return 0;
}

14.Leapyear
#include <stdio.h>

int main()
{
    int year;
    printf("Enter a year: ");
    scanf("%d", &year);
    if (year % 4 == 0)
    {
        if (year % 100 == 0)
        {
            // the year is a leap year if it is divisible by 400.1900 not leap year
            if (year % 400 == 0)
                printf("%d is a leap year.", year);
            else
                printf("%d is not a leap year.", year);
        }
        else
            printf("%d is a leap year.", year);
    }
    else
        printf("%d is not a leap year.", year);
    return 0;}
```

PujaComputers