

# Programming In C

## Practical Five

30499

01)

- ```
#include <stdio.h>
int main()
{
    int counter = 1;
    do
    {
        printf(" %d", counter);
        counter++;
    }
    while (counter <= 100);
}
```
- ```
#include <stdio.h>
int main()
{
    int x;
    for( x=1; x<=100; x++);
    {
        printf("%d",x);
    }
}
```
- ```
#include <stdio.h>
int main()
{
```

```

        int counter= 0, x=1;
        while (counter<100)
        {
            printf(" %d",x);
            counter++;
            x++;
        }
    }

```

02)

```

#include <stdio.h>
int main()
{
    float avg,mark,total;
    int counter=0;
    while (counter<10)
    {
        printf("Enter Your Mark");
        scanf("%f",&mark);
        counter++;
        total= total+mark;
    }
    avg=total/counter;
    printf(" Total Is %f",total);
    printf(" Average Is %f",avg);
}

```

03)

```

#include <stdio.h>
int main()
{
    int num, c=1,d=1;
    printf (" Enter A Number To Calculate The Factorial");
    scanf(" %d",&num);
    if( num<0)

```

```

        {
            printf( " Error: Can't calculate the factorial of a negative
number");
        }
    else
    {
        do
        {
            c= c * d ;
            d++;
        }

        while ( d<=num);
        printf(" Factorial is %d",c);
    }
}

```

04)

```

#include <stdio.h>
int main()
{
    int total = 0, num, i = 1;
    printf(" Enter A Number.");
    scanf("%d",&num);
    do
    {
        total = total + i;
        i++;
    }
    while(" i<= num);
    printf(" Total Is %d",total);
}

```

05)      #include <stdio.h>

```

int main()
{
    int reverse=0, num, d=0;
    printf(" Enter A Number To Reverse The Digits.");
    scanf("%d",&num);
    do
    {
        d = num%d;
        reverse= reverse * 10+d;
        num= num/10;
    }
    while ( num>0);
    printf(" Reversed Number Is %d", reverse);

}

```

06)

```

#include <stdio.h>
int main()
{
    int num, exponent, i = 1, a = 1;
    printf(" Enter The Base.");
    scanf("%d",&num);
    printf(" Enter The Exponent.");
    do
    {
        a = a*num;
        i ++;
    }
    while ( i<= exponent);
    printf(" Answer = %d",a);

}

```

```
07)  #include <stdio.h>
      int main()
      {
          int a = 0, b = 1, c = 0, x = 1 ;
          while( x<11)
          {
              c = a + b;
              b = a;
              a = c ;
              printf(" %d",c);
              x++;
          }
      }
```

```
08)  #include <stdio.h>
      int main()
      {
          int num, a = 0, total = 0, digits = 0;
          printf(" Enter A Number.");
          scanf(" %d",&num);
          int original= num;
          do
          {
              num = num/10;
              digits ++;
          }
          while( num>0);
          num=original;
          do
          {
              a = num%10;
              total = total+pow ( a, digits);
              num = num/10;
          }
```

```
        while( num>0);  
    if( original == total)  
        printf(“ %d Is An Armstrong Number.”,original);  
    else  
        printf( “ %d Is Not An Armstrong Number.”, original);  
}
```

```
}
```