

QUESTION 1

```
#include <stdio.h>

void main()
{
    int j, sum = 0;
    for (j = 1; j <= 10; j++)
    {
        sum = sum + j;
        printf("%d ",j);
    }
    printf("The Sum is : %d", sum);
}
```

QUESTION 2

```
#include <stdio.h>

int main() {
    int n, i=1;
    printf("Enter an integer: ");
    scanf("%d", &n);
    while (i <= 10)
    {
        printf("%d * %d = %d \n", n, i, n * i);
        ++i;
    }
    return 0;
}
```

QUESTION 3

```
#include<stdio.h>

int main()
{
```

```
int num,i=1, sum = 0;

printf("Enter a number\n");
scanf("%d", &num);

do
{
    sum = sum +2*i-1;

    i++;
}

while(i < num);

printf("Sum of ODD integer number is %d\n", sum);

return 0;
}
```

QUESTION 4

```
#include <stdio.h>

void main()
{
    int i,j;

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

            printf("*");

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

QUESTION 5

```
#include <stdio.h>

void main()
{
```

```

int i,j,k=1;
for(i=1;i<5;i++)
{
    for(j=1;j<=i;j++)
        printf("%d",k++);
    printf("\n");
}
}

```

QUESTION 6

```

#include <stdio.h>

int main() {
    int i, space, rows, k = 0;
    printf("Enter the number of rows: ");
    scanf("%d", &rows);
    for (i = 1; i <= rows; ++i, k = 0) {
        for (space = 1; space <= rows - i; ++space) {
            printf(" ");
        }
        while (k != 2 * i - 1) {
            printf("* ");
            ++k;
        }
        printf("\n");
    }
    return 0;
}

```

QUESTION 7

```

#include <stdio.h>

```

```

int main() {
    int rows, coef = 1, space, i, j;
    printf("Enter the number of rows: ");
    scanf("%d", &rows);
    for (i = 0; i < rows; i++) {
        for (space = 1; space <= rows - i; space++)
            printf(" ");
        for (j = 0; j <= i; j++) {
            if (j == 0 || i == 0)
                coef = 1;
            else
                coef = coef * (i - j + 1) / j;
            printf("%4d", coef);
        }
        printf("\n");
    }
    return 0;
}

```

QUESTION 8

```

#include <stdio.h>

int main() {
    int i, n, x = 0, y = 1, nt;
    printf("Enter the num: ");
    scanf("%d", &n);
    printf("Fibonacci Series: ");

    for (i = 1; i <= n; ++i) {
        printf("%d, ", x);
        nt = x + y;
        x = y;

```

```
        y = nt;
    }
```

```
    return 0;
}
```

QUESTION 9

```
#include<stdio.h>

void main()
{
    int n, i=1, sum=0;
    printf("\n Enter a number: ");
    scanf("%d", &n);
    while(i<n)
    {
        if(n%i==0)
        {
            sum=sum+i;
        }
        i++;
    }
    if(sum==n)
        printf("\n %d is a Perfect Number.",n);
    else
        printf("\n %d is Not a Perfect Number.",n);
}
```

QUESTION 10

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

```
void main(){
```

```

int num,r,sum,temp;
int stno,enno;

printf("Input starting range: ");
scanf("%d",&stno);

printf("Input ending range : ");
scanf("%d",&enno);

printf("Armstrong numbers in given range are: ");
for(num=stno;num<=enno;num++){
    temp=num;
    sum = 0;

    while(temp!=0){
        r=temp % 10;
        temp=temp/10;
        sum=sum+(r*r*r);
    }
    if(sum==num)
        printf("%d ",num);
}
printf("\n");
}

```

QUESTION 11

```

#include <stdio.h>

int main() {
    int n, i, flag = 0;
    printf("Enter a num: ");

```

```

scanf("%d", &n);
for (i = 2; i <= n / 2; ++i)
{
    if (n % i == 0) {
        flag = 1;
        break;
    }
}

if (n == 1) {
    printf("1 is neither prime nor composite.");
}
else {
    if (flag == 0)
        printf("%d is a prime number.", n);
    else
        printf("%d is not a prime number.", n);
}

return 0;
}

```

QUESTION 12

```

#include <stdio.h>

void main(){
    int num,r,sum=0,t;

```

```

printf("Input a number: ");
scanf("%d",&num);
t=num;

do{
    r=num % 10;
    sum=sum*10+r;
    num=num/10;
}
while(num!=0);
printf("reverse order : %d \n",sum);
}

```

QUESTION 13

```

#include <stdio.h>

void main()
{
    long int n,i,t=9;
    int sum =0;
    printf("enter the number or terms :");
    scanf("%ld",&n);
    for (i=1;i<=n;i++)
    {
        sum +=t;
        printf("%ld ",t);
        t=t*10+9;
    }
    printf("\nThe sum of the series = %d \n",sum);
}

```

QUESTION 14

```

#include <stdio.h>

```



```

void main()
{
    float x,sum,t,d;
    int i=1,n;
    printf("Input the Value of x :");
    scanf("%f",&x);
    printf("Input the number of terms : ");
    scanf("%d",&n);
    sum =1; t = 1;
    while (i<n)
    {
        d = (2*i)*(2*i-1);
        t = -t*x*x/d;
        sum =sum+ t;
        i++;
    }
    printf("\nthe sum = %f\nNumber of terms = %d\nvalue of x = %f\n",sum,n,x);
}

```

QUESTION 15

```

#include <stdio.h>
#include <math.h>
void main()
{
    int x,sum,ctr;
    int i=1,n,m,mm,nn;
    printf("Input the value of x :");
    scanf("%d",&x);
    printf("Input number of terms : ");

```

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

sum =x; m=-1;

printf("The values of the series: \n");

printf("%d\n",x);

do
{
    ctr = (2 * i + 1);
    mm = pow(x, ctr);
    nn = mm * m;
    printf("%d \n",nn);
    sum = sum + nn;
    m = m * (-1);
    i++;
}

while(i < n);

printf("\nThe sum = %d\n",sum);

}
```