```c
/* Prog to illustrate printf()*/
#include <stdio.h>
int main()
{
    printf("Pavan Kumar Motamarri");
}
```

/*O/P:- Pavan Kumar Motamarri*/

```c
/* Prog to read and print a value*/
#include <stdio.h>
int main()
{
    int a;
    printf("enter value for a");
    scanf("%d", &a);
    printf("Inputed integer is %d", a);
}
```

O/P:-   Enter value for a   10
        Inputed integer is   10

```c
/* Sum of two numbers */
#include <stdio.h>
int main()
{
    int a, b, c;
    printf("enter values for a, b");
    scanf("%d %d", &a, &b);
    c = a + b;
    printf("Sum of two numbers is %d", c);
}
```

O/P:- enter values for a, b   5 10
      Sum of two inputed numbers is 15

(4) /* prog to print area of rectangle */
```c
#include <stdio.h>
int main()
{
    int l,b,area;
    printf("enter values for l,b");
    scanf("%d %d",&l,&b);
    area = l*b;
    printf("Area is %d", area);
}
```

(5) /* prog to print area of circle */
```c
#include <stdio.h>
int main()
{
    int PI = 3.14, r, area;
    printf("enter value for r");
    scanf("%d", &r);
    area = PI*r*r;
    printf("Area is %d", area);
}
```

(6) /* swapping b/w two numbers without using third variable */
```c
#include <stdio.h>
int main()
{
    int a,b;
    printf("enter values for a,b");
    scanf("%d %d",&a,&b);
    c = a;
    a = b;
    b = c;
    printf("After swapping \n");
    printf("A is %d and B is %d",a,b);
```

(1) /* prog swapping b/w numbers using third variable*/

```c
#include<stdio.h>
int main()
{
    int a,b,c;
    printf(" Enter values for a,b");
    scanf("%d%d",&a,&b);

    a = a+b;
    b = a-b;
    a = a-b;
    printf(" After swapping \n");
    printf(" A is %d and B is %d", a,b);
}
```

8) /* Prog to illustrate arithmetical operators*/

```c
#include<stdio.h>
int main()
{
    int a,b;
    printf("enter values for a,b);
    scanf(" %d%d",&a,&b);

    printf("Addition is %d ", a+b);
    printf("\n subtraction is %d", a-b);
    printf("\n multiplication is %d", a*b);
    printf("\n Division %of ",(float)a/b);
    printf("\n mod division %d ", a%b);
}
```

O/P:- a=10 b=20

Addition is 20
Subtraction is -10
multiplication is 200
Division is 0.500000
Moddivision is 10

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(9)
```
/* Prog to check relational operators*/
#include <stdio.h>
int main()
{
    int a,b;
    printf("enter values a,b");
    scanf("%d %d",&a,&b);

    printf(" a>b is %d \n", a>b);
    printf(" a<b is %d \n", a<b);
    printf(" a<=b is %d \n", a<=b);
    printf(" a>=b is %d \n", a>=b);
    printf(" a==b is %d \n", a==b);
    printf(" a!=b is %d \n", a!=b);

}
/* Relational operators returns 1 when expression is true,
   other wise 0*/
```

(10)
```
/* Prog to illustrate conditional operator */
#include <stdio.h>
int main()
{
    int n;
    printf("enter value for n");
    scanf("%d", &n);
    n%2==0?printf("%d is even",n):printf("%d is odd",n);
}
```

(11)
```
/* prog to check person is eligible or not for donating blood*/
#include <stdio.h>
int main()
{
    int age, hb;
    printf("Enter age and hb %.");
    scanf("%d %d",age, hb);
    age>=18 && hb>=60 ? printf("eligble"): printf("Not eligible");
}
```