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## ASSIGNMENT:1

1>Write a C program to enter two numbers and perform all arithmetic operations.

ANS.

```
#include<stdio.h>

int main()
{
    int a,b,pr,add,sub;
    float q;
    printf("enter the values of a and b\n");
    scanf("%d %d",&a,&b);
    add=a+b;
    printf("the addition of %d and %d is=%d\n",a,b,add);
    sub=a-b;
    printf("the subtraction of %d and %d is=%d\n",a,b,sub);
    pr=a*b;
    printf("the multiplication of %d and %d is =%d\n",a,b,pr);
    q=a/b;
    printf("the division of %d and %d is=%f\n",a,b,q);
}
```

Output:

```
enter the values of a and b
45
5
the addition of 45 and 5 is=50
the subtraction of 45 and 5 is=40
the multiplication of 45 and 5 is =225
the division of 45 and 5 is=9.000000
```

## 2. Write a C program to enter temperature in Celsius and convert it into Fahrenheit

Ans:

```
#include<stdio.h>

int main()
{
    float cel,far;
    printf("enter the value of temperature in celcius\n");
    scanf("%f",&cel);
    far=(9*cel+160)/5;
    printf("the value of temperature in fahrenheit is %f",far);
}
```

Output:

```
enter the value of temperature in celcius
45
the value of temperature in fahrenheit is 113.000000
```

## 3. Write a C program to enter the radius of a circle and find its diameter, circumference and area.

Ans:

```
#include<stdio.h>

int main()
```

```

{
    int r,d;
    float area,cir;
    printf("enter the radius of the circle\n");
    scanf("%d",&r);
    d=2*r;
    printf("the diameter of the circle is %d\n",d);
    area=3.14*r*r;
    printf("the area of the circle is %f\n",area);
    cir=2*3.14*r;
    printf("the circumference of the circle is %f\n",cir);
}

```

## Output:

```

enter the radius of the circle
42
the diameter of the circle is 84
the area of the circle is 5538.959961
the circumference of the circle is 263.760010

```

4. Write a C program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade according to following:

Percentage  $\geq 90\%$  : Grade A

Percentage  $\geq 80\%$  : Grade B

Percentage  $\geq 70\%$  : Grade C

Percentage  $\geq 60\%$  : Grade D

Percentage  $\geq 40\%$  : Grade E

## Percentage < 40% : Grade F

Ans:

```
#include<stdio.h>

int main()
{
    int p,c,b,m,com,s;
    float avg;
    printf("enter the marks in phy,che,bio,math and com respectively\n");
    scanf("%d %d %d %d %d",&p,&c,&b,&m,&com);
    s=p+c+b+m+com;
    avg=s/5.0;
    printf("the percentage of mark secured by the student is %f\t",avg);
    if(avg>=90)
    {
        printf("grade_A\n");
    }
    else if(avg>=80)
    {
        printf("grade_B\n");
    }
    else if(avg>=70)
    {
        printf("grade_C\n");
    }
    else if(avg>=60)
    {
        printf("grade_D\n");
    }
}
```

```

else if(avg>=40)
{
    printf("grade_E\n");
}
else
{
    printf("grade_F\n");
}
}

```

## Output:

```

enter the marks in phy,che,bio,math and com respectively
99
99
99
99
99
the percentage of mark secured by the student is 99.000000 grade_A

```

5. Write a C program to check whether an alphabet is vowel or consonant using switch case.

Ans:

```

#include<stdio.h>

int main()
{
    char ch;
    printf("enter any alphabet\n");
    scanf("%c",&ch);
    switch(ch)
    {
        case 'a':case 'A':

```

```
        printf("vowel\n");
        break;
case 'e':case 'E':
    printf("vowel\n");
    break;
case 'i':case 'I':
    printf("vowel\n");
    break;
case 'o':case 'O':
    printf("vowel\n");
    break;
case 'u':case 'U':
    printf("vowel\n");
    break;
default:
    printf("consonant\n");
    break;

    }
}
```

## Output:

```
enter any alphabet
d
consonant
```