

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

```
#include <stdio.h>
void main()
{
    float a, b, x;
    char c;
    printf("Enter two nos: \n");
    scanf("%f%f", &a, &b);
    printf("Enter Arithmetic Operation: \n");
    scanf("%c", &c);
    switch(c)
    {
        case '+':
            x = a + b;
            break;
        case '-':
            x = a - b;
            break;
        case '*':
            x = a * b;
            break;
        case '/':
            x = a / b;
            break;
    }
    printf("Result = %f", x);
}
```

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

```
Ans) #include <stdio.h>
void main()
{
    float c, f;
    printf("Enter Temperature in Celsius \n");
    scanf("%f", &c);
    f = (9/5 * c) + 32;
    printf("The degree in Fahrenheit = %f", f);
}
```

- ③ Write a C program to enter the radius of a circle and find its diameter.

```
Ans) #include <stdio.h>
void main()
{
    float area, dia, cir, rad;
    printf("Enter the radius of the circle \n");
    scanf("%f", &rad);
    float pie = 3.14;
    area = pie * rad * rad;
    cir = pie * 2 * rad;
    dia = 2 * rad;
    printf("The Diameter = %f", dia);
    printf("The circumference = %f", cir);
    printf("The Area = %f", area);
}
```


- 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 $\leq 40\%$: Grade F

```
Ans) #include <stdio.h>
main()
{
    float P, C, B, M, CO;
    float per;
    printf("Input marks of physics, chemistry, Biology,
    maths & computer \n");
    scanf("%f%f%f%f%f", &P, &C, &B, &M, &CO);
    per = (P + C + B + M + CO) / 5;
    if (per >= 90)
    {
        printf("Grade A");
    }
    If (per >= 80 && per < 90)
    {
        printf("Grade B");
    }
    If (per >= 70 && per < 80)
    {
        printf("Grade C");
    }
    If (per >= 60 && per < 70)
```

```

    {
        printf ("Grade D");
    }
    If (per >= 40 && per < 60)
    {
        printf ("Grade E");
    }
    If (per < 40):
    {
        printf ("Grade F");
    }
    printf ("The percentage = %.1f", per);
}

```

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

Ans) #include <stdio.h>

```

void main()
{
    char c;
    printf ("Enter the Alphabet \n");
    scanf ("%c", &c);
    Switch (c);
    {
        case 'A':
        case 'a':
        case 'E':
        case 'e':
        case 'I':
        case 'i':
        case 'O':

```


case 'a';

case 'u';

case 'v';

printf("The Alphabet is Vowel\n");

break;

default;

printf("The Alphabet is Consonant");

}

}