

Name -Arpita Lakra

Branch-Electrical engineering, 1st year

Group 11

College-VSSUT,Burla

Assignment Week-1.

1. Enter two no. and perform all arithmetic operations

```
#include <stdio.h>
void main()
```

```
{
    int a, b;
    int add, sub, mul, mod;
    float div;
```

```
printf("Enter two number : ");
```

```
scanf("%d %d", &a, &b);
```

```
add = a + b;
```

```
sub = a - b;
```

```
mul = a * b;
```

```
mod = a % b;
```

```
div = a / (float)b;
```

```
printf("Addition is %d \n", add);
```

```
printf("Subtraction is %d \n", sub);
```

```
printf("Multiplication is %d \n", mul);
```

```
printf("Modulus is %d \n", mod);
```

```
printf("Division is %f \n", div);
```

```
return 0;
```

```
}
```

2. Enter temp. in Celsius and convert it into Fahrenheit.

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

```
int main ( )
```

```
{
```

```
float C, F;
```

```
printf ("Enter temperature in Celsius: ")
```

```
scanf ("%f", &C);
```

$$F = \left(\frac{9}{5} * C \right) + 32$$

```
printf ("The temperature in Fahrenheit is %.d \n", F
```

```
return 0;
```

```
}
```

3. Enter the radius of a circle and find its diameter, circumference and area.

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

```
int main ( )
```

```
{
```

```
int r, c, a, d;
```

```
printf ("Enter radius of a circle: ")
```

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

$$C = 2 * 3.14 * r;$$

$$d = 2 * r;$$

$$a = 3.14 * r * r;$$

```
printf ("Diameter of circle is %.d \n", d);
```

```
printf ("Circumference of circle is %.d \n", C);
```

```
printf ("Area of circle is %.d \n", a);
```

```
return 0;
```

```
}
```

4. Calculate percentage and grade according to following :

Percentage $\geq 90\%$: Grade A
" $\geq 80\%$: Grade B
" $\geq 70\%$: Grade C
" $\geq 60\%$: Grade D
" $\geq 40\%$: Grade E
" $< 40\%$: Grade F

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

```
int main
```

```
{
```

```
int Physics, Chemistry, Biology, Mathematics, Computer;  
float Percentage;
```

```
printf("Enter physics mark = ");
```

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

```
printf("Enter Chemistry mark = ");
```

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

```
printf("Enter Biology mark = ");
```

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

```
printf("Enter Mathematics mark = ");
```

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

```
printf("Enter Computer marks = ");
```

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

```
Percentage = (Physics + Chemistry + Biology + Mathematics +  
Computer) / 5;
```

```
printf("Enter Percentage = %.2f\n", Percentage);
```

```
if (Percentage  $\geq 90$ )
```

```
{ printf("In Grade A");
```

```
}
```

```
else
```

```
if (Percentage  $\geq 80$ )
```

```
{ printf("In Grade B");
```

```
}
```

```
else if (Percentage  $\geq 70$ )
```

```
{ printf("In Grade C");
```

```
}
```

```
else if (Percentage >= 60) .  
{ printf ("In Grade D").  
}.  
else if (Percentage >= 40) .  
{ printf ("In Grade E").  
}.  
else if (Percentage < 40) .  
{ printf ("In Grade F").  
}.  
return 0 ;  
}
```


check whether an alphabet is vowel or constant using switch case.

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

```
{
```

```
    char ch;
```

```
    printf("Enter any alphabet :");
```

```
    scanf("%c", &ch);
```

```
    switch (ch)
```

```
    {
```

```
        case 'a':
```

```
            if (ch == 'a' || 'e' || 'i')
            printf("Vowel");
            break;
```

```
        case 'e':
```

```
            printf("vowel");
            break;
```

```
        case 'i':
```

```
            printf("vowel");
            break;
```

```
        case 'o':
```

```
            printf("vowel");
```

```
            break;
```

```
        case 'u':
```

```
            printf("vowel");
```

```
            break;
```

```
        case 'A':
```

```
            printf("vowel");
```

```
        case 'E':
```

```
            printf("vowel");
```

```
            break;
```

```
        case 'I':
```

```
            printf("vowel");
```

```
            break;
```

```
        case 'O':
```

```
            printf("vowel");
```

```
            break;
```

```
        case 'U':
```

```
            printf("vowel");
```

```
            break;
```

```

default :
    printf ("Consonant");
}
return 0;
}

```