

Assignment Week 1

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Q1)

```
#include <stdio.h>

int main()
{
    int x,y;
    printf("Enter first integer x: ");
    scanf("%d", &x);
    printf("Enter second integer y: ");
    scanf("%d", &y);

    printf("Sum of the integers %d and %d is %d\n",x ,y , x+y);
    printf("Product of the integers %d and %d is %d\n",x ,y, x*y);
    printf("Difference of the integers %d and %d is %d\n", x, y , x-y);
    printf("Quotient of the integers %.2f and %.2f is %.2f\n",(float)x ,(float
)y, (float)x/y);
    printf("The modulo of the integers %d and %d is %d\n",x ,y , x%y);
    return 0;
}
```

Q2)

```
#include <stdio.h>

int main()
{
    float tempc, far;
    printf("Enter the temperature in degree Celsius: ");
    scanf("%f", &tempc);
    far = ((tempc*9)/5) + 32; //> formula to change celcius into fahrenheit is
(0°C × 9/5) + 32 = 32°F
    printf("Temperature in fahrenheit is %.2f\n", far);
    return 0;
}
```

Q3)

```
#include <stdio.h>

int main()
{
    float r;
    printf("Enter the radius of the circle: ");
    scanf("%f", &r);
    printf("The diameter of this circle is %.2f\n", 2*r);
    printf("The circumference of this circle is %.2f\n", 2*3.14*r);
    printf("The area of this circle is %.2f\n", 3.14*r*r);
    return 0;
}
```

Q4)

```
#include <stdio.h>

int main()
{
    float physics, chemistry, biology, mathematics, computer;
    float total = 500;
    printf("Enter the marks obtained in physics: ");
    scanf("%f", &physics);
    printf("Enter the marks obtained in chemistry: ");
    scanf("%f", &chemistry);
    printf("Enter the marks obtained in biology: ");
    scanf("%f", &biology);
    printf("Enter the marks obtained in mathematics: ");
    scanf("%f", &mathematics);
    printf("Enter the marks obtained in computer: ");
    scanf("%f", &computer);

    float per = (physics+chemistry+biology+mathematics+computer)/total;
    if(per >= 0.9)
    {
        printf("Grade A");
    } else if(per >= 0.8)
    {
        printf("Grade B");
    } else if(per >= 0.7)
```

```
{
    printf("Grade C");
} else if(per >= 0.6)
{
    printf("Grade D");
} else if(per >= 0.4)
{
    printf("Grade E");
} else if(per < 0.4)
{
    printf("Grade F");
}
return 0;
}
```

Q5)

```
#include <stdio.h>

int main()
{
    char a;
    printf("Enter an alphabet: ");
    scanf("%c", &a);

    switch (a) {
        case 'A':
            printf("Vowel");
            break;
        case 'a':
            printf("Vowel");
            break;
        case 'E':
```

```
    printf("Vowel");
    break;
    case 'e':
    printf("Vowel");
    break;
    case 'I':
    printf("Vowel");
    break;
    case 'i':
    printf("Vowel");
    break;
    case 'O':
    printf("Vowel");
    break;
    case 'o':
    printf("Vowel");
    break;
    case 'U':
    printf("Vowel");
    break;
    case 'u':
    printf("Vowel");
    break;

    default:
    printf("Consonant");

}
return 0;
}
```