

## Question 1

```
#include <stdio.h>

void main()
{
    int code;
    float side, base, length, breadth, height, area, radius;

    printf(" 1 -> Circle\n");
    printf(" 2 -> Rectangle\n");
    printf(" 3 -> Triangle\n");
    printf("Enter the Figure code\n");
    scanf("%d", &code);
    switch(code)
    {
    case 1:
        printf("Enter the radius\n");
        scanf("%f", &radius);
        area = 3.142 * radius * radius;
        printf("Area of a circle = %f\n", area);
        break;
    case 2:
        printf("Enter the breadth and length\n");
        scanf("%f %f", &breadth, &length);
        area = breadth * length;
        printf("Area of a Rectangle = %f\n", area);
        break;
    case 3:
        printf("Enter the base and height\n");
        scanf("%f %f", &base, &height);
        area = 0.5 * base * height;
        printf("Area of a Triangle = %f\n", area);
        break;
    default:
        printf("Error in figure code\n");
        break;
    }
}
```

## Question 2

```
#include <stdio.h>

int main()
{
    int i, j, end, isPrime;
    printf("Find prime numbers between 2 to : ");
    scanf("%d", &end);

    printf("All prime numbers between 2 to %d are:\n", end);

    for(i=2; i<=end; i++)
    {
        isPrime = 1;
        for(j=2; j<=i/2; j++)
        {
            if(i%j==0)
            {
                isPrime = 0;
                break;
            }
        }
        if(isPrime==1)
        {
            printf("%d, ", i);
        }
    }

    return 0;
}
```

## Question 3

```
#include <stdio.h>

int main(){
    int i, sum = 0;

    for (int i = 0; i <= 20; ++i) {
        if (i%2==1) {
            continue;
        }
        else{
            sum = sum + i;
        }
    }
    printf("The sum of all even numbers form 0 to 20: %d\n", sum);
}
```