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CSE102 HW02

Part 1 50pts

In this part you will write a function that plots the graph of a given function int fTheFunction(int x, int functionNumber). f is a hidden function that takes an integer and returns an integer. There are 5 such functions that your function is going to be tested with.

Your function should plot \boldsymbol{x} and \boldsymbol{y} axis lines also.

First function is f(x)=2*x and its graph is in the sample output below.

Signature

```
int fTheFunction(int x,int functionNumber)
void drawFunction(int xAxis,int yAxis,int functionNumber);
```

Sample Usage

```
result = fTheFunction(x,functionNumber )
  (x=4; functionNumber=1; result=8)
drawFunction(xAxis,yAxis,functionNumber);
(xAxis=40 ; yAxis=40 ; functionNumber=1)
```

Output

Part 2

In this part you will write a function to draw a simple car that contains two stacked rectangles and two circles as wheels.

a)20pts

Write a function that draws rectangle.

b)20pts

Write a function that draws two circles near each other.

c)10pts

Write a function to draw a car using two functions above.

Signature

```
void drawRectangle(int width,int height, int startingPoint, int printLastLine);
void drawDoubleCircle(int radius, int startingPoint , int whellDistance);
void drawCar();
```

Sample Usage

```
drawRectangle (width,height, startingPoint, printLastLine);
( width:10, height:40, startingPoint:11, printLastLine:0)
drawDoubleCircle(radius, startingPoint ,whellDistance);
( radius:4, startingPoint:7 whellDistance:12)
drawCar(); (Output of this function as below)
```

Return Value

