Change for an amount: Greedy approach failure
(1) Coins we have = 16,5,1.
amount - 20.
Minimum, using graedy approach=5(1-16;4-ponnies)
MiNimum = 4(4-nickels).
(2) (oins we have - 15,9,1.
amount=29
Minimum using greedy approach=7- minimum=57
minimum=57
(3-95,2-pennies).

(3) Coins we have = 1,6,3,2,1. amount - 12minimum using arecdy approach =3(1-75;1-35;1-25) Min imum = 2 (2-65)-(4) Coins we have = 7,6,4,3,1.

amount-19. minimum using greedy approach=7(2-15;5-pennieshimum=4 (3-65;1-pennie). 2->7c;1->4c;1->1c) But it we don't have 4c coins; then greedy approach bails- Greety =  $5(2\Rightarrow7c;1\Rightarrow3c;2\Rightarrow1c)$ min-=  $4(3\rightarrow6c;1\rightarrow1c)$ 

(5)

Coins we have=6,5,2,1 AMOUNT=10 total using greedy approach=3(1-65;2-25) total=2(2-ni(ke|s))

Score: 4 4 20 = 80 5 = 5 20 = 700

> Bonhs. 18 Total score: 75 Total