

Assignment 1

Group Member

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Section: 02

Pseudocode of Question2

1. Start
2. Set number =0, overtime=0, total=0
3. Print "Enter your name \t\t\t: "
4. Get name
5. Print "Enter your employee number \t:"
6. Get number
7. Print "Type of employees:\n\tG-fixed paid employees \n\tK-Contract worker \n\tS-Subcontract worker"
8. Print "Enter your employee code\t:"
9. Get type
10. If (type== 'G')
 - 10.1. Print " Hi, Fixed paid employee, "<<name<< "!"
 - 10.2. Print "Category of fixed paid employees: \n\tP : manager \n\tB : non manager"
 - 10.3. Print "Enter your category\t\t: "
 - 10.4. Get category
 - 10.5. fixed_salary=GType()
 - 10.5.1. While ((category!='B')&&(category!='P'))
 - 10.5.1.1. Print "Category of fixed paid employees: \n\tP : manager \n\tB : non manager"
 - 10.5.1.2. Print "Enter your category\t:"
 - 10.5.1.3. Get category
 - 10.5.2. If (category=='B')
 - 10.5.2.1. Print "Enter hour of overtime\t\t:"
 - 10.5.2.2. Get overtime
 - 10.5.2.3. total=G_Bcategory()
 - 10.5.2.4. OTsalary=G_Bcategory()
 - 10.5.2.5. total=fixed_salary+OTsalary
 - 10.5.3. Else if(category=='P')

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        10.5.3.1. total=fixed_salary
    10.5.4. Else
        10.5.4.1. Print "Error!"
    10.5.5. End if
11. If (type== 'K')
    11.1.    Print "Hi, Contract worker, "<<name<<" !"
    11.2.    Print "Category of contract worker: \n\tB - Recovery \n\tS - Maintenance"
    11.3.    Print "Enter your category\t\t\t: "
    11.4.    Get category
    11.5.    hour=KType()
    11.6.    Do
        11.6.1. If (category=='B')
            11.6.1.1. total=K_Bcategory(hour)
        11.6.2. Else if(category=='S')
            11.6.2.1. total=K_Scategory(hour)
        11.6.3. Else
            11.6.3.1. Print "Category of contract worker: \n\tB - Recovery \n\tS –
                        Maintenance"
            11.6.3.2. Print "Enter your category:"
            11.6.3.3. Get category
        11.6.4. End if
    11.7.    While((category!='B')&&(category!='S'))
12. If (type == 'S')
    12.1.    Set num=0
    12.2.    Print "Hi, subcontract worker, "<<name<<" !"
    12.3.    Print ""Type of toys assembled: \n\tB - Large size toy\n\tS - Medium size
            toy\n\tK - Small size toy"
    12.4.    Print "Enter type of toys assembled\t: "
    12.5.    Get size
    12.6.    total=SType(size)
13. Else
    13.1.    Call wrongType(type)
14. End if
15. Print "Employee's name: "<<name
16. Print "Employee number: "<<number
17. Print "Employee income: RM "<<total
18. Stop

```

GType():

1. Print "Enter amount of fixed_salary\t:"
2. Get fixed_salary
3. Return fixed_salary

KType():

1. Print "Enter working hour for contract worker\t:"
2. Get hour
3. Return hour

G_Bcategory(overtime):

1. If (overtime>20)
 - 1.1. OTsalary=(10*15)+(10*12)
2. Else if(overtime>10)
 - 2.1. OTsalary=(10*15)+((overtime-10)*12)
3. Else if(overtime>0)
 - 3.1. OTsalary=overtime*15;
4. Else
 - 4.1. OTsalary=0
5. End if
6. Return OTsalary

K_Bcategory(hour):

1. If (hour>100)
 - 1.1. total=20*100
2. Else if (hour>0)
 - 2.1. total=20*hour
3. Else
 - 3.1. total=0
4. End if
5. Return total

K_Scategory(hour):

1. If(hour>100)
 - 1.1. total= (50*10)+(50*5)
2. If (hour>50)
 - 2.1. total=(50*10)+((hour-50)*5)
3. Else if (hour>0)
 - 3.1. total=hour*10
4. Else
 - 4.1. total=0
5. End if
6. Return total

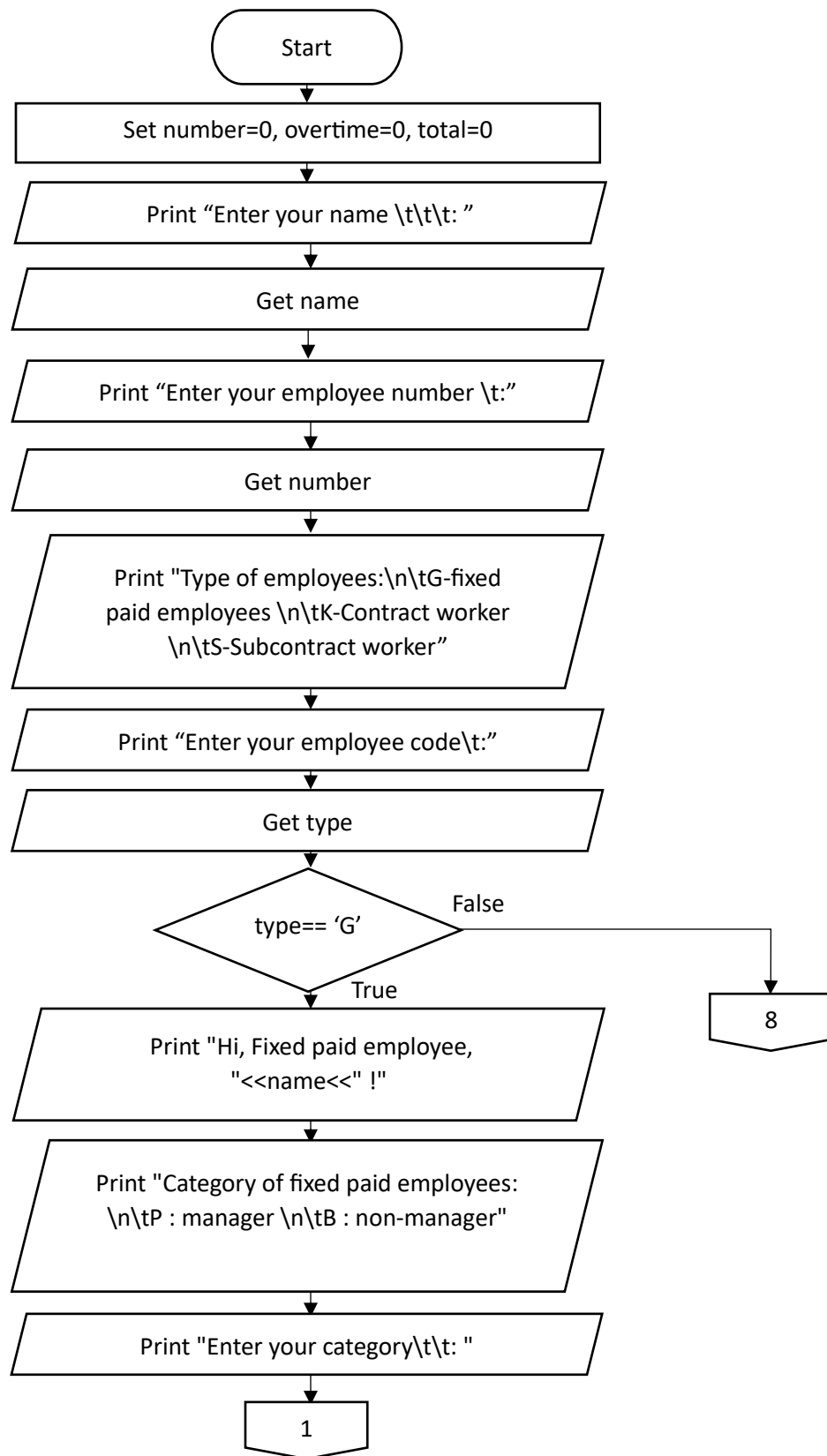
wrongType(type):

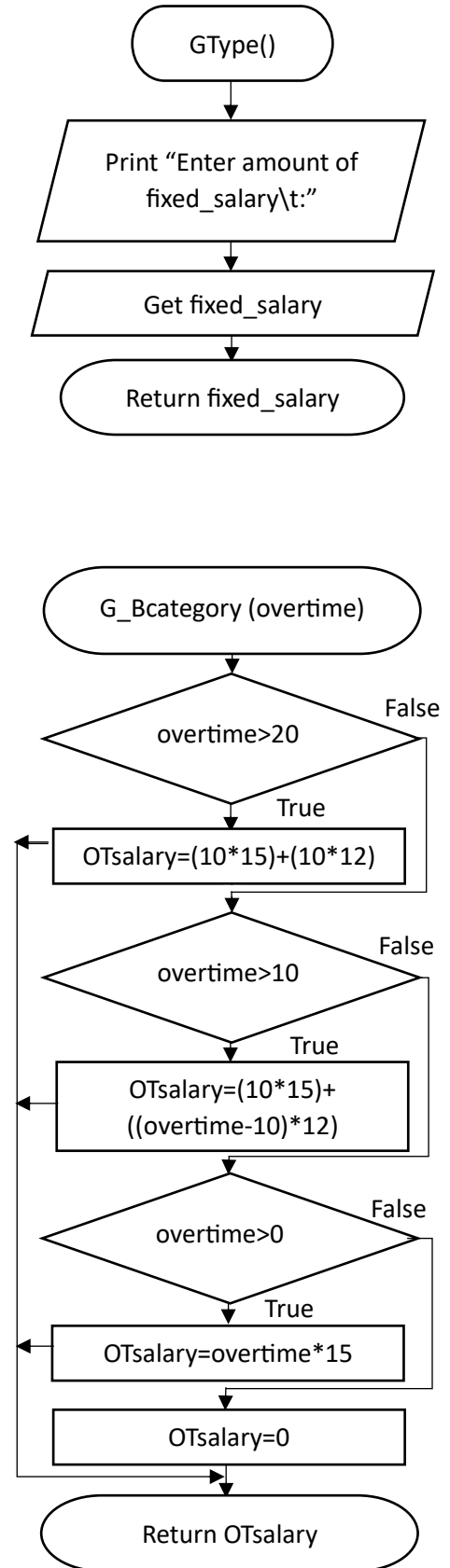
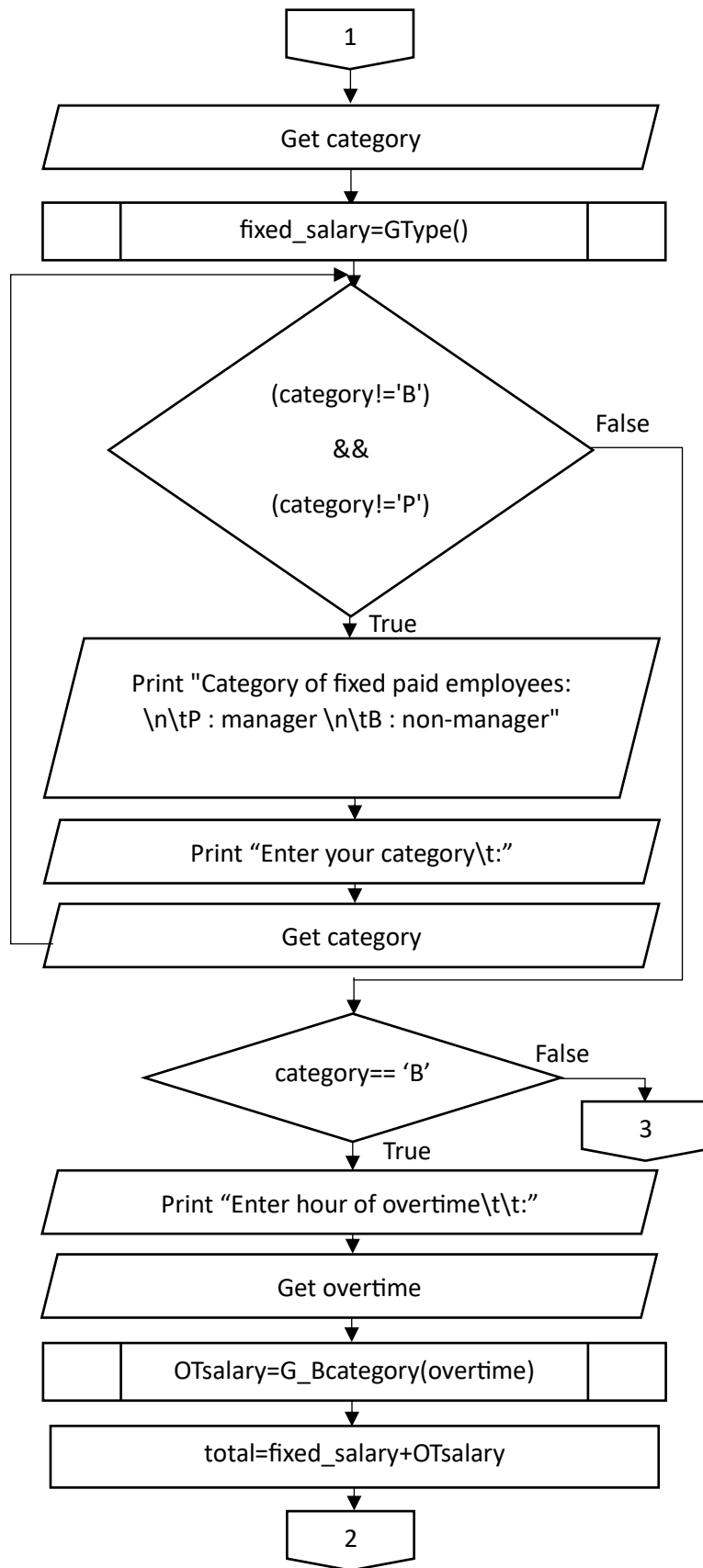
1. If ((type!='G')&&(type!='K')&&(type!='S'))
 - 1.1. Print "Invalid type of employee!"

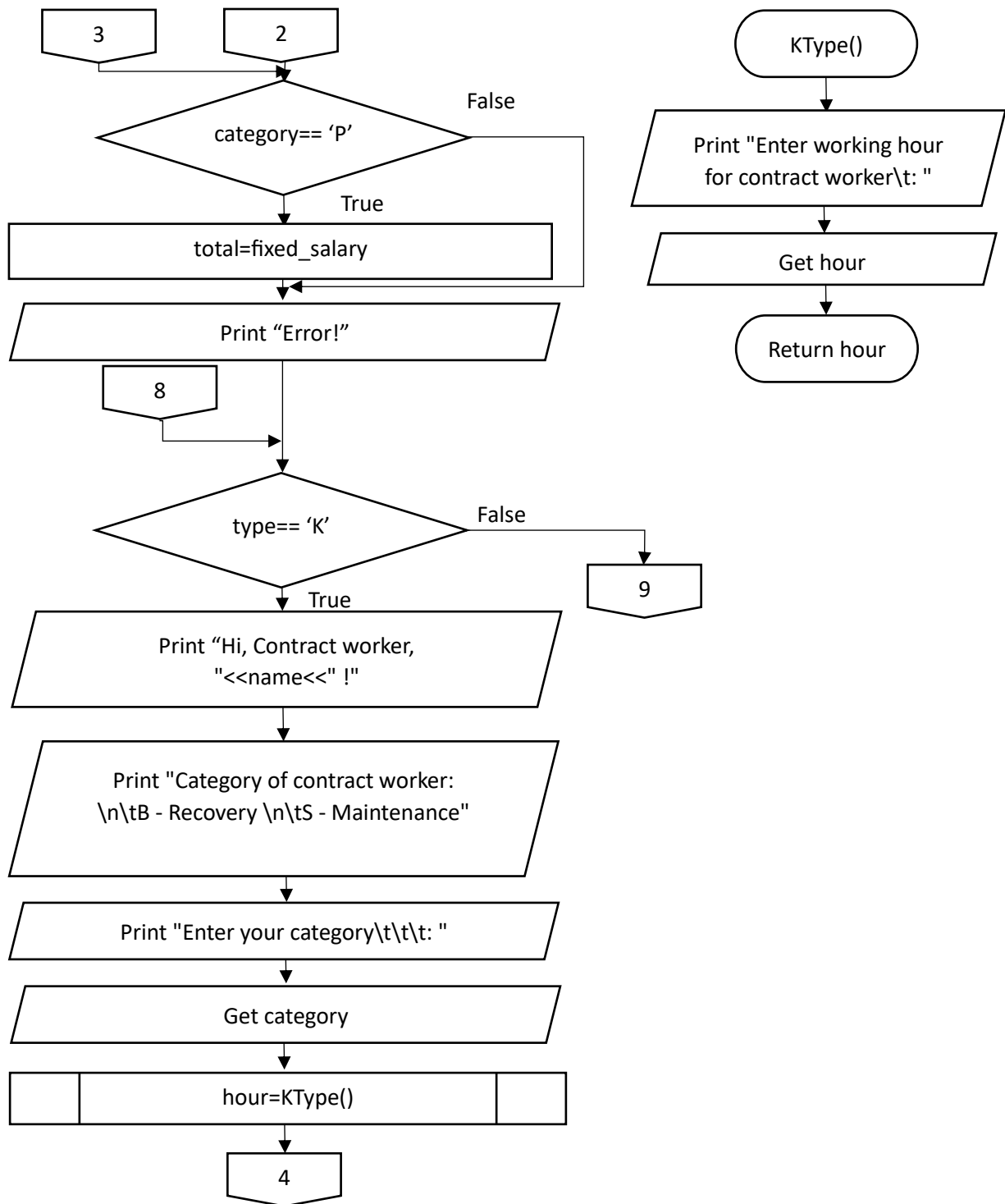
SType(size):

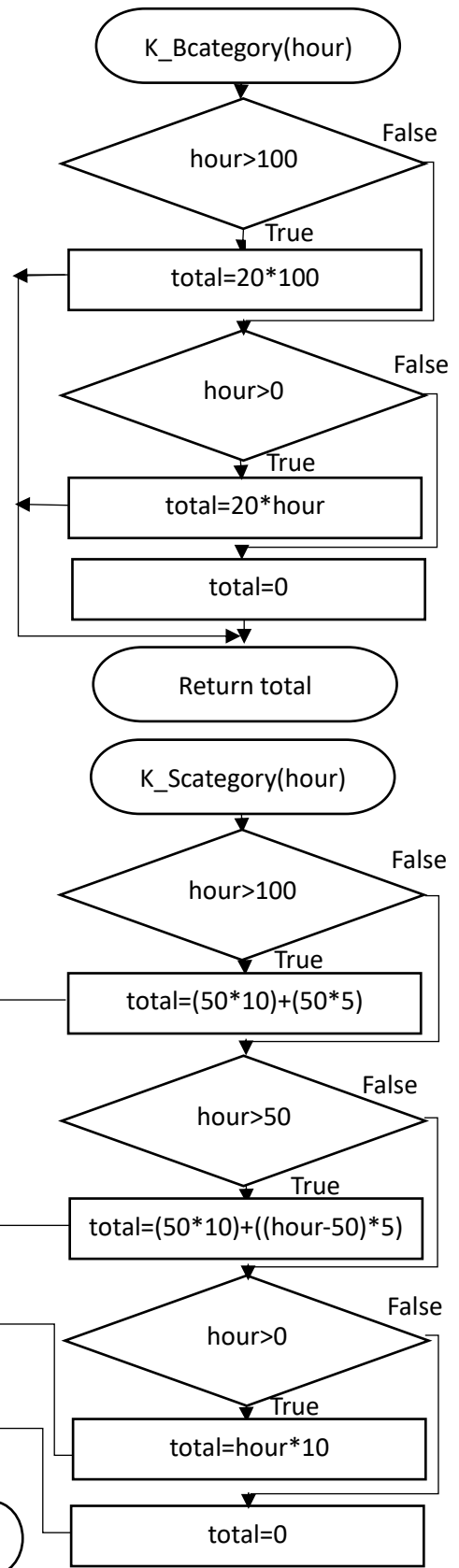
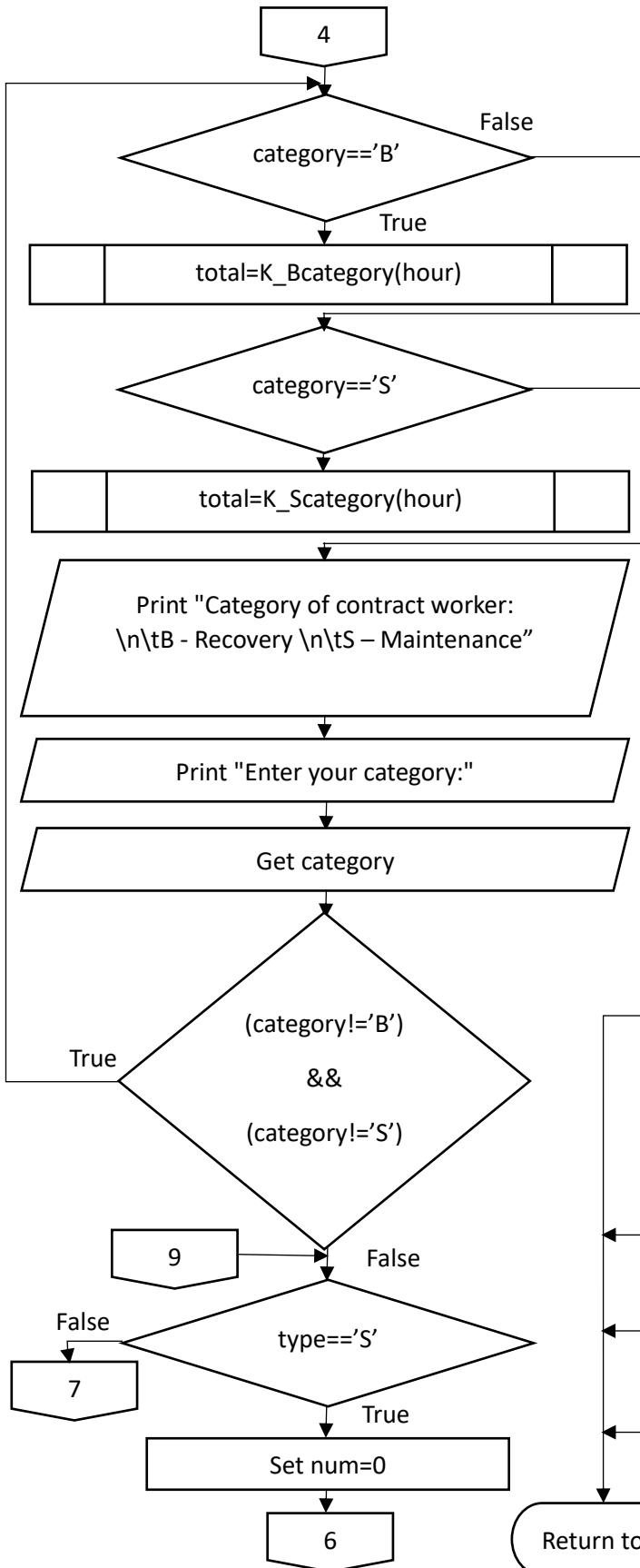
1. Set num=0
2. If (size== 'B')
 - 2.1. Print "Enter number of large size toy\t:"
 - 2.2. Get num
 - 2.3. total=num*8
3. Else if(size== 'S')
 - 3.1. Print "Enter number of medium size toy\t:"
 - 3.2. Get num
 - 3.3. total=num*5
4. Else if(size== 'K')
 - 4.1. Print "Enter number of small size toy\t:"
 - 4.2. Get num
 - 4.3. total=num*2
5. Else
 - 5.1. total=0
6. End if
7. Return total

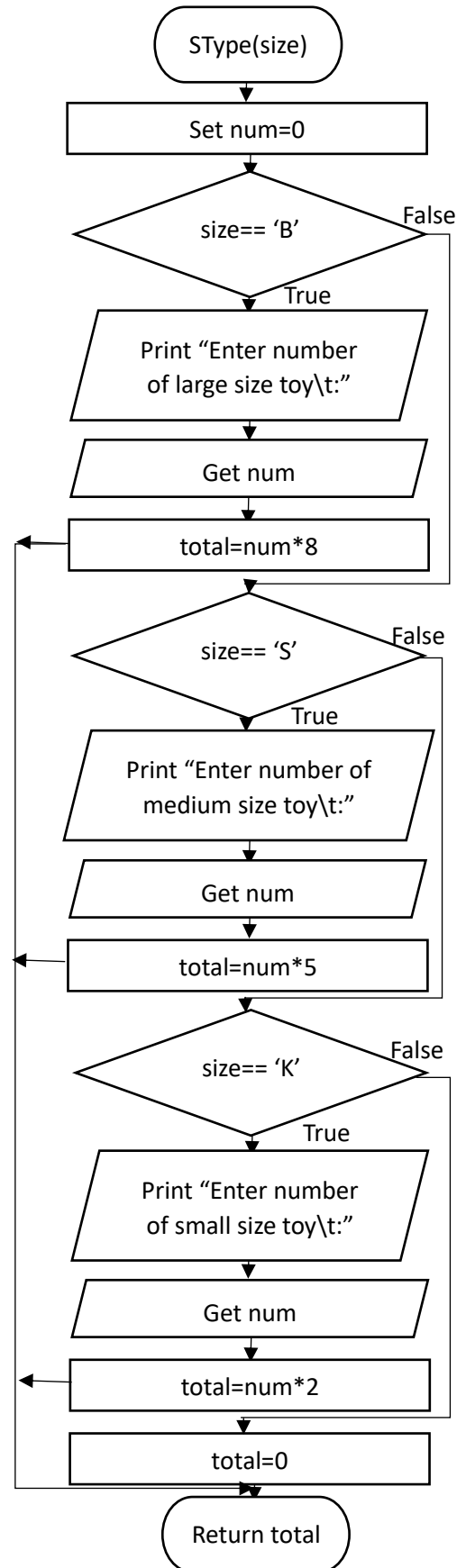
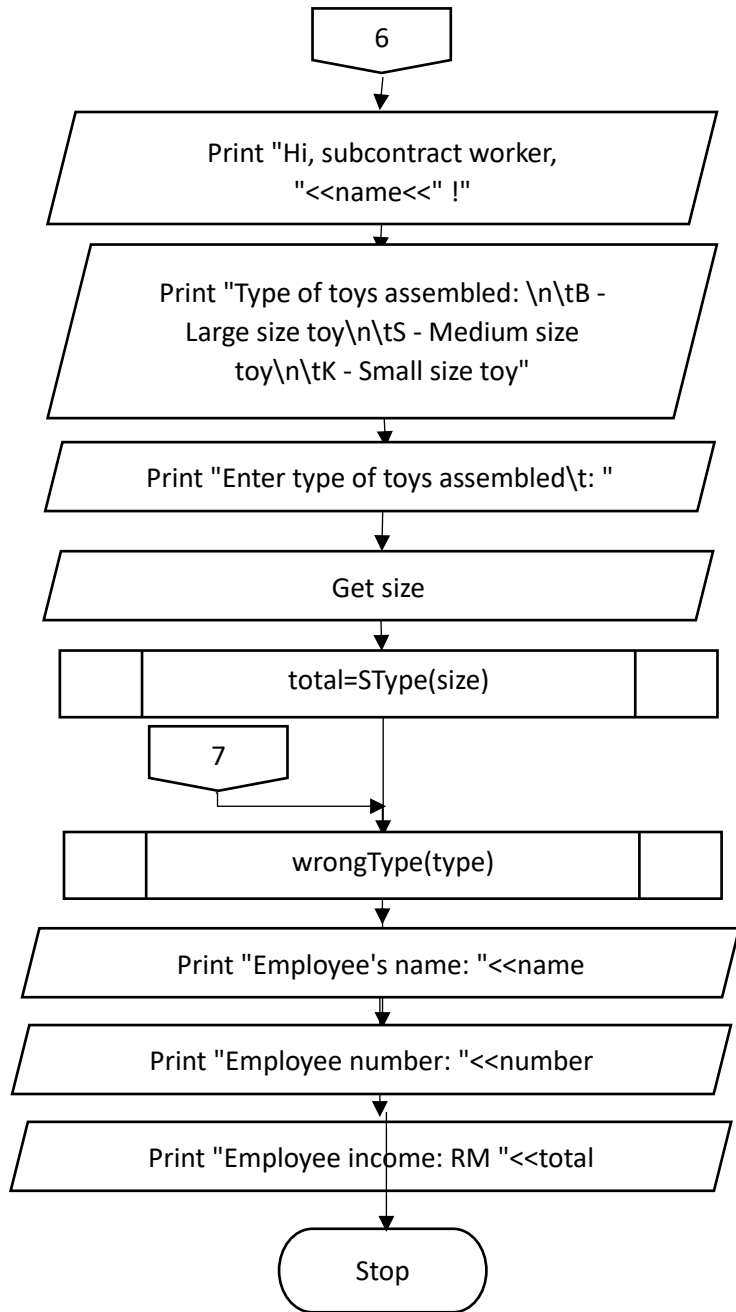
Flowchart Question 2

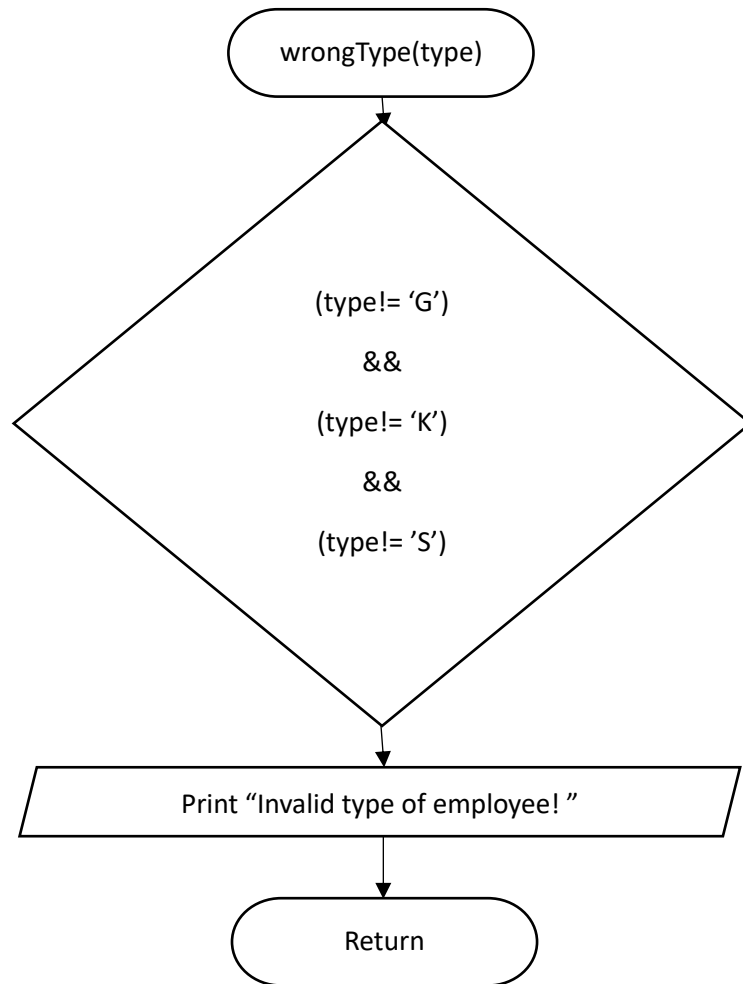












Output

```
PS C:\Users\User> cd "c:\Users\User\Documents\Y1S1 SECJ1013\Programs\Group assignment\" ; if ($?) { g++ Y1S1_group_assignment.cpp -o Y1S1_group_assignment } ; if ($?) { .\Y1S1_group_assignment }
Enter your name : ALi
Enter your employee number : 123

Type of employees:
G-fixed paid employees
K-Contract worker
S-Subcontract worker
Enter your employee code : G

Hi, Fixed paid employee, ALi !
Category of fixed paid employees:
P : manager
B : non-manager
Enter your category : B
Enter amount of fixed salary : 2000
Enter hour of overtime : 5

Employee's name: ALi
Employee number: 123
Employee income: RM 2075
PS C:\Users\User\Documents\Y1S1 SECJ1013\Programs\Group assignment>
```

```
PS C:\Users\User> cd "c:\Users\User\Documents\Y1S1 SECJ1013\Programs\Group assignment\" ; if ($?) { g++ Y1S1_group_assignment.cpp -o Y1S1_group_assignment } ; if ($?) { .\Y1S1_group_assignment }
Enter your name : Ali2
Enter your employee number : 123

Type of employees:
G-fixed paid employees
K-Contract worker
S-Subcontract worker
Enter your employee code : G

Hi, Fixed paid employee, Ali2 !
Category of fixed paid employees:
P : manager
B : non-manager
Enter your category : B
Enter amount of fixed salary : 2000
Enter hour of overtime : 120

Employee's name: Ali2
Employee number: 123
Employee income: RM 2270
PS C:\Users\User\Documents\Y1S1 SECJ1013\Programs\Group assignment>
```

```
PS C:\Users\User> cd "c:\Users\User\Documents\Y1S1 SECJ1013\Programs\Group assignment\" ; if ($?) { g++ Y1S1_group_assignment.cpp -o Y1S1_group_assignment } ; if ($?) { .\Y1S1_group_assignment }
Enter your name : Ali3
Enter your employee number : 123

Type of employees:
G-fixed paid employees
K-Contract worker
S-Subcontract worker
Enter your employee code : G

Hi, Fixed paid employee, Ali3 !
Category of fixed paid employees:
P : manager
B : non-manager
Enter your category : P
Enter amount of fixed salary : 2000

Employee's name: Ali3
Employee number: 123
Employee income: RM 2000
PS C:\Users\User\Documents\Y1S1 SECJ1013\Programs\Group assignment>
```

```
PS C:\Users\User> cd "c:\Users\User\Documents\Y1S1 SECJ1013\Programs\Group assignment\" ; if ($?) { g++ Y1S1_group_assignment.cpp -o Y1S1_group_assignment } ; if ($?) { .\Y1S1_group_assignment }
Enter your name : Ali Hassan
Enter your employee number : 123

Type of employees:
G-fixed paid employees
K-Contract worker
S-Subcontract worker
Enter your employee code : K

Hi, Contract worker, Ali Hassan !
Category of contract worker:
B - Recovery
S - Maintenance
Enter your category : B
Enter working hour for contract worker : 15

Employee's name: Ali Hassan
Employee number: 123
Employee income: RM 300
PS C:\Users\User\Documents\Y1S1 SECJ1013\Programs\Group assignment>
```

```
PS C:\Users\User> cd "c:\Users\User\Documents\Y1S1 SECJ1013\Programs\Group assignment\" ; if ($?) { g++ Y1S1_group_assignment.cpp -o Y1S1_group_assignment } ; if ($?) { .\Y1S1_group_assignment }
Enter your name : Ali Hassan 2
Enter your employee number : 123

Type of employees:
G-fixed paid employees
K-Contract worker
S-Subcontract worker
Enter your employee code : K

Hi, Contract worker, Ali Hassan 2 !
Category of contract worker:
B - Recovery
S - Maintenance
Enter your category : B
Enter working hour for contract worker : 120

Employee's name: Ali Hassan 2
Employee number: 123
Employee income: RM 2000
PS C:\Users\User\Documents\Y1S1 SECJ1013\Programs\Group assignment>
```

```
PS C:\Users\User> cd "c:\Users\User\Documents\Y1S1 SECJ1013\Programs\Group assignment\" ; if ($?) { g++ Y1S1_group_assignment.cpp -o Y1S1_group_assignment } ; if ($?) { .\Y1S1_group_assignment }
Enter your name : Abu
Enter your employee number : 123

Type of employees:
G-fixed paid employees
K-Contract worker
S-Subcontract worker
Enter your employee code : K

Hi, Contract worker, Abu !
Category of contract worker:
B - Recovery
S - Maintenance
Enter your category : S
Enter working hour for contract worker : 15

Employee's name: Abu
Employee number: 123
Employee income: RM 150
PS C:\Users\User\Documents\Y1S1 SECJ1013\Programs\Group assignment>
```



```
PS C:\Users\User> cd "c:\Users\User\Documents\Y1S1 SECJ1013\Programs\Group assignment\" ; if ($?) { g++ Y1S1_group_assignment.cpp -o Y1S1_group_assignment } ; if ($?) { .\Y1S1_group_assignment }
Enter your name : Akbar
Enter your employee number : 123

Type of employees:
G-fixed paid employees
K-Contract worker
S-Subcontract worker
Enter your employee code : S

Hi, subcontract worker, Akbar !
Type of toys assembled:
B - Large size toy
S - Medium size toy
K - Small size toy
Enter type of toys assembled : B
Enter number of large size toy : 23

Employee's name: Akbar
Employee number: 123
Employee income: RM 184
PS C:\Users\User\Documents\Y1S1 SECJ1013\Programs\Group assignment>
```

```
PS C:\Users\User> cd "c:\Users\User\Documents\Y1S1 SECJ1013\Programs\Group assignment\" ; if ($?) { g++ Y1S1_group_assignment.cpp -o Y1S1_group_assignment } ; if ($?) { .\Y1S1_group_assignment }
Enter your name : Akbar
Enter your employee number : 123

Type of employees:
G-fixed paid employees
K-Contract worker
S-Subcontract worker
Enter your employee code : S

Hi, subcontract worker, Akbar !
Type of toys assembled:
B - Large size toy
S - Medium size toy
K - Small size toy
Enter type of toys assembled : B
Enter number of large size toy : 23

Employee's name: Akbar
Employee number: 123
Employee income: RM 184
PS C:\Users\User\Documents\Y1S1 SECJ1013\Programs\Group assignment>
```

The screenshot shows a Windows 10 desktop with a Visual Studio Code editor window open. The editor is displaying a C++ program named 'Y1S1_group_assignment.cpp' in the 'TERMINAL' pane. The program prompts the user for their name, employee number, employee code, and type of toys assembled. The output shows the user's input and the calculated results: Employee's name: Akbar 3, Employee number: 123, Employee income: RM 46, and the number of toys assembled: 23. The status bar at the bottom indicates the file is at line 1, column 1, with 4 spaces, UTF-8 encoding, CRLF line endings, and is a C++ file named 'Win32'.

```

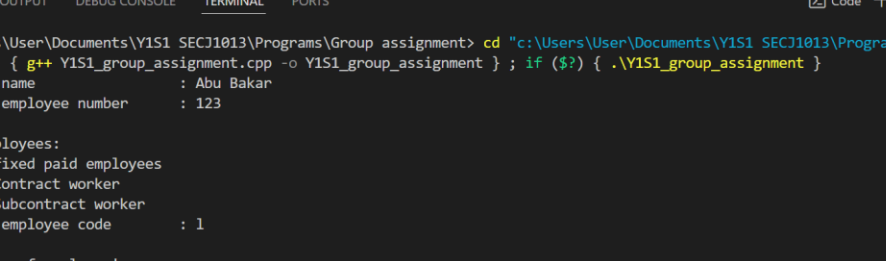
PS C:\Users\User\Documents\Y1S1 SECJ1013\Programs\Group assignment> cd "c:\Users\User\Documents\Y1S1 SECJ1013\Programs\Group assignment\"
" ; if ($?) { g++ Y1S1_group_assignment.cpp -o Y1S1_group_assignment } ; if ($?) { .\Y1S1_group_assignment }
Enter your name : Akbar 3
Enter your employee number : 123

Type of employees:
G-fixed paid employees
K-Contract worker
S-Subcontract worker
Enter your employee code : S

Hi, subcontract worker, Akbar 3 !
Type of toys assembled:
B - Large size toy
S - Medium size toy
K - Small size toy
Enter type of toys assembled : K
Enter number of small size toy : 23

Employee's name: Akbar 3
Employee number: 123
Employee income: RM 46
PS C:\Users\User\Documents\Y1S1 SECJ1013\Programs\Group assignment>
  
```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF {} C++ Win32



The screenshot shows a Windows 10 desktop with a Visual Studio Code window open. The terminal window displays the execution of a C++ program. The program prompts for employee details and outputs summary information.

```
PS C:\Users\User\Documents\Y151 SECJ1013\Programs\Group assignment> cd "c:\Users\User\Documents\Y151 SECJ1013\Programs\Group assignment\"
; if ($?) { g++ Y151_group_assignment.cpp -o Y151_group_assignment } ; if ($?) { .\Y151_group_assignment }
Enter your name           : Abu Bakar
Enter your employee number : 123

Type of employees:
G-fixed paid employees
K-Contract worker
S-Subcontract worker
Enter your employee code   : 1

Invalid type of employee!

Employee's name: Abu Bakar
Employee number: 123
Employee income: RM 0
PS C:\Users\User\Documents\Y151 SECJ1013\Programs\Group assignment>
```

The status bar at the bottom of the Visual Studio Code window shows the following information: Ln 1, Col 1, Spaces: 4, UTF-8, CRLF, {} C++, Win32. The system tray at the bottom right shows the date and time: 7:15 PM, 12/15/2024.

