

**ASSIGNMENT # 01**

PROGRAM FOR PAY-SLIP GENERATION



October 7, 2021

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FA21-BCS-053

# **Code:**

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| /\* THIS PROGRAM WILL GENERATE A PAY SLIP OF AN EMPLOYEE OF A COMPANY\*/  #include <stdio.h>  #include <stdlib.h>  int main**()**  **{**  int age**,**experience**;** /\*Variables for age and years of experience \*/  char grade**;** /\* grade of the employee i.e. W, Y,X,Z \*/  int basic\_sal**=**0**;** /\*Variable for Basic Salary \*/  int perInc\_amount**=**0**;** /\*Amount per year of experience variable \*/  int RunPay**=**0**;** /\*Running Pay variable\*/  float HRA**=**0.0**,**SSB**=**0.0**;** /\*Variables for HOUSE RENT ALLOWANCE AND SOCIAL SECURITY BENEFIT\*/  int ARA**=**0**;** /\*Variable for Ad-hoc Relief Allowance\*/  int GPay**=**0**;** /\* Gross Pay Variable\*/  int IncomeTax**=**0**;** /\* float type variable for Income Tax \*/  float ITper**=**0.0**;** /\* Income Tax Percentage Variable (depends on annual income) \*/  int AnnualIncome**=**0**;** /\*Annual Income variable (this won't be printed or displayed but is important for Income Tax) \*/  int GPF**=**0**;** /\*General Provident Fund Variable \*/  int Deducts**=**0**;** /\*Variable for Deductions from the Gross pay \*/  int NetPay**=**0**;** /\*variable for Net/total pay \*/  label**:**  printf**(**"ENTER EMPLOYEE'S AGE (e.g. 20,43,50 etc) : "**);** /\*Prints Enter employees’ age: in the output \*/  scanf**(**"%d"**,&**age**);** /\*Use to scan/input Employee's age from user \*/  printf**(**"ENTER EMPLOYEE'S EXPERIENCE IN YEARS (e.g. 2,4,5 etc) : "**);** /\*Prints Enter employee's experience \*/  scanf**(**"%d"**,&**experience**);** /\*scans employee's experience (in years) from user \*/  printf**(**"ENTER EMPLOYEE'S GRADE (W,X,Y,Z) : "**);** /\* Prints Enter employee's grade:\*/  scanf**(**" %c"**,** **&**grade**);** /\*scans employee's grade \*/  /\*Since each grade has a different Basic Salary & per year experience amount. So, we will use if & else statements to apply the following conditions:  if grade = W : BASIC SALARY = 10000 : per year experience amount = 700  if grade = X : BASIC SALARY = 12900 : per year experience amount = 910  if grade = Y : BASIC SALARY = 21700 : per year experience amount = 1500  if grade = Z : BASIC SALARY = 32600 : per year experience amount = 2800  \*/  **if(**grade**!=**'W'**&&** grade**!=**'w'**&&**grade**!=**'X'**&&**grade**!=**'x'**&&**grade**!=**'Y'**&&**grade**!=**'y'**&&**grade**!=**'z'**&&**grade**!=**'Z'**)**  **{**  system**(**"cls"**);**  printf**(**"Invalid Input.\n\n"**);**  printf**(**"Press ENTER to Input again\n"**);**  getch**();**  system**(**"cls"**);**  **goto** label**;**  **}**  **if(**grade**==**'W'**||** grade**==**'w'**)**  **{**  basic\_sal**=**10000**;**  perInc\_amount**=**700**;**  **}**  **else** **if(**grade**==**'X'**||** grade**==**'x'**)**  **{**  basic\_sal**=**12900**;**  perInc\_amount**=**910**;**  **}else** **if(**grade**==**'Y'**||** grade**==**'y'**)**  **{**  basic\_sal**=**21700**;**  perInc\_amount**=**1500**;**  **}else** **if(**grade**==**'Z'**||**grade**==**'z'**)**  **{**  basic\_sal**=**32600**;**  perInc\_amount**=**2800**;**  **}**  /\*In this Section we will calculate Running Pay \*/  printf**(**"\n\n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n\n"**);** /\* prints few lines to increase the readability of the program\*/  printf**(**"BASIC PAY\n\n"**);**/\*Prints BASIC PAY \*/  printf**(**"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n\n"**);**/\* prints few lines to increase the readability of the program\*/  printf**(**"Basic Salary:\t\t\t\t%d\n"**,**basic\_sal**);** /\* prints Basic Salary according to the grades\*/  printf**(**"Years of Experience:\t\t\t%d"**,**experience**);**/\* prints experience in integers according to the input given by the user\*/  RunPay**=**basic\_sal**+(**experience**\***perInc\_amount**);** /\* Formula to calculate Running pay (Running Pay= basic salary+(experience\*peryearamount)\*/  printf**(**"\nRunning Pay:\t\t\t\t%d\n\n"**,**RunPay**);**/\* prints Running pay value using the above formula\*/  /\*In this Section we will calculate Allowances \*/  printf**(**"ALLOWANCES\n\n"**);** /\*prints ALLOWANCES \*/  printf**(**"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n\n"**);** /\*USED FOR SPACING PURPOSE SO THE READABILITY OF PROGRAM INCREASES \*/  HRA**=(**45.0**/**100**)\***RunPay**;** /\* Formula for House Rent Allowance = 45% of Running pay\*/  printf**(**"(HRA)House Rent Allowance:\t\t%.0f\n"**,**HRA**);** /\*prints House Rent Allowance using the above formula \*/  SSB**=(**30.0**/**100**)\***basic\_sal**;**/\* Formula for Social Security Benefit = 30% of Basic Salary\*/  printf**(**"(SSB)Social Security Benefit:\t\t%.0f\n"**,**SSB**);**/\*prints SSB using the above formula \*/  /\*CONDITIONS FOR AD-HOC RELIEF ALLOWANCE:  if grade of employee is W and age not young than 30 and more than 3 years of experience then give 3000 Rs as ARA  else give 1500 to employees older than 40 with grades other than W  \*/  **if(**grade**==**'W'**||**grade**==**'w'**&&**age**>=**30**&&**experience**>**3**)**  **{**  ARA**=**3000**;**  **}else** **if(**age**>**40**)**  **{**  ARA**=**1500**;**  **}**  printf**(**"(ARA)Ad-hoc Relief Allowance:\t\t%d\n\n"**,**ARA**);** /\*prints (ARA)Ad-hoc Relief Allowance: \*/  GPay**=**RunPay**+(**HRA**+**SSB**+**ARA**);** /\* Formula for gross pay= running pay + ALL ALLOWANCES\*/  printf**(**"Gross Pay:\t\t\t\t%d\n\n"**,**GPay**);** /\* Prints the value for Gross pay using above formula \*/  printf**(**"DEDUCTIONS\n\n"**);** /\* Prints DEDUCTIONS \*/  printf**(**"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n\n"**);** /\* SPACING \*/  AnnualIncome**=**GPay**\***12**;** /\* Annual Income formula = Gross pay \* 12 \*/  /\* CONDITIONS FOR ANNUAL INCOME AND INCOME TAX :  IF ANNUAL INCOME RANGES FROM 0 TO 400,000/- THEN INCOME TAX = 0% OF GROSS PAY  IF ANNUAL INCOME RANGES FROM 400,001 TO 650,000/- THEN INCOME TAX = 2.5% OF GROSS PAY  IF ANNUAL INCOME RANGES FROM 650,001 TO 1,000,000/- THEN INCOME TAX = 4.75% OF GROSS PAY  IF ANNUAL INCOME RANGES FROM 1,000,001 TO 1,500,000/- THEN INCOME TAX = 7% OF GROSS PAY  IF ANNUAL INCOME IS 1,500,001/- OR GREATER THEN INCOME TAX = 2.5% OF GROSS PAY  \*/  **if(**AnnualIncome**>=**0 **&&** AnnualIncome**<=**400000**)**  **{**  ITper**=**0.0**;**  IncomeTax**=**ITper**\***GPay**;**  **}else** **if(**AnnualIncome**>=**400001 **&&** AnnualIncome**<=**650000**)**  **{**  ITper**=(**2.5**);**  IncomeTax**=(**ITper**/**100.0**)\***GPay**;**  **}else** **if(**AnnualIncome**>=**650001 **&&** AnnualIncome**<=**1000000**)**  **{**  ITper**=(**4.75**);**  IncomeTax**=(**ITper**/**100.0**)\***GPay**;**  **}else** **if(**AnnualIncome**>=**1000001 **&&** AnnualIncome**<=**1500000**)**  **{**  ITper**=(**7.0**);**  IncomeTax**=(**ITper**/**100.0**)\***GPay**;**  **}else** **if(**AnnualIncome**>=**1500001**)**  **{**  ITper**=(**11.5**);**  IncomeTax**=(**ITper**/**100.0**)\***GPay**;**  **}**  printf**(**"(IT)Income Tax at (%f %):\t\t%d\n"**,**ITper**,**IncomeTax**);** /\*prints the value for income tax using the conditions above\*/  GPF**=(**10.0**/**100.0**)\***GPay**;**/\*General Provident Fund Formula = 10% of Gross Pay\*/  printf**(**"(GPF)General Provident Fund:\t\t%d\n\n"**,**GPF**);**/\*prints GPF using the above formula\*/  Deducts**=**IncomeTax**+**GPF**;**/\*Total Deduction = IncomeTax+GPF \*/  printf**(**"Total Deductions:\t\t\t%d\n\n"**,**Deducts**);**/\*prints Total Deductions using the above formula\*/  printf**(**"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n\n"**);**/\*Spacing\*/  NetPay**=**GPay**-**Deducts**;**/\*NET PAY FORMULA = GROSS PAY - TOTAL DEDUCTIONS\*/  printf**(**"NET PAY:\t\t\t%d"**,**NetPay**);**/\*prints NET PAY using the above formula\*/  **return** 0**;**  **}**  /\* END OF THE PROGRAM \*/ |

# **Output:**

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