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registration form and displays a completion message that includes the user's full name and a temporary
password.\n\n### Console:\n""powershell\nRegistration Form\n\nFirst Name: Eric\nLast Name: Idle\nBirth
Year: 1934\n\nWelcome Eric Idle!\nYour registration is complete!\nYour temporary password is:
Eric*1934\n"\n\n### Specifications:\n- The user's full name consists of the user's first name, a space.
and the user's last name.\n- The temporary password consists of the user's first name, an asterisk (*),
and the user's birth year.\n- Assume the user will enter valid data.\n",
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input(\"Last Name: \")\nyear: int = input(\"Birth Year: \")\n\nprint (\"\")\nprint (\"Welcome \" + first name + \"
\" + last name + \"!\")\n\nprint(\"Your registration is complete!\")\n\nprint(\"Your temporary password is: \"
+ first_name + \"*\" + year)\n",
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take-home pay.\n\n### Console\n":powershell\nPay Check Calculator\n\nHours Worked: 35\nHourly Pay
Rate: 14.50\n\nGross Pay: 507.5\nTax Rate: 18%\nTax Amount: 91.35\nTake Home Pay:
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416.15\n"\n\n### Specifications:\n- The formula for calculating gross pay is:\n'gross pay = hours worked

* hourly rate'\n- The formula for calculating tax amount is:\n'tax amount = gross pay * (tax rate / 100)'\n-The formula for calculating take home pay is:\n'take home pay = gross pay – tax amount'\n- The tax rate should be 18%, but the program should store the tax rate in a variable so that you can easily change the tax rate later, just by changing the value that's stored in the variable.\n- The program should accept decimal entries like 35.5 and 14.25.\n- Assume the user will enter valid data.\n- The program should round the results to a maximum of two decimal places.\n", "metadata": {} }, "cell type": "code", "source": "print(\"Pay Check Calculator \\n\")\n\nprint (\"\")\nworked: float = input(\"Hours Worked: \")\n\npay_rate: float = input(\"Hourly Pay Rate: \\n\")\n\ngross_pay = float(worked) * float(pay rate)\n\nTAXRATE: float = 18.0\n\ntax amount = gross pay * (TAXRATE / 100)\n\ntake_home_pay = gross_pay - tax_amount\n\n\n#prints gross pay taxrate tax amount and take home pay\nprint(\"Gross Pay: \" + ('%.2f'%gross_pay))\nprint(\"Tax Rate: \" + ('%.2f'%TAXRATE))\nprint(\"Tax Amount: \" + ('%.2f'%tax amount))\nprint(\"Take Home Pay: \" + ('%.2f'%take home pay))\n", "metadata": {}, "outputs": []. "execution count": 2 }, "cell type": "markdown", "source": "## 2.3 - Travel Time Calculator\nCreate a program that calculates the estimated hours and minutes for a trip.\n\n### Console\n":powershell\nTravel Time Calculator\n\nEnter Miles: 200\nEnter Miles per Hour: 65\n\nEstimated Travel Time\nHours: 3\nMinutes: 5\n"\n\n### Specifications\n- The program should only accept integer entries like 200 and 65.\n- Assume that the user will enter valid data.\n\n### Hint\n- Use integers with the integer division and modulus operators to get hours and minutes.". "metadata": {} }, "cell type": "code", "source": "print(\"Travel Time Calculator \\n\")\n\nmiles: float = input(\"Enter Miles: \") #200\n\nmiles per hour: float = input(\"Enter Miles per Hour: \") #65\n\n#get the amount of hours $driven\n\n\$ = float(miles) / float(miles_per_hour)\n\nprint(hours_driven)\n\n\n#rounds to get int\nhours int = round(hours driven, 0)\n\nprint(hours int)\n\n#gains the decimal\nminutes decimal = hours driven - hours int \n\nprint(minutes decimal)\n\n#times it by the amount of minutes in an hour\nminutes left = minutes decimal * 60\n\nprint(minutes left)\n\n#rounds minutes left\nminutes int = round(minutes left)\n\nprint(minutes left)\n\nprint(\"\\nEstimated Travel Time\")\nprint(\"Hours: \" + str(hours int))\nprint(\"Minutes: \" + str(minutes int))\n", "metadata": {}, "outputs": [], "execution_count": 3

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